

**STOW**

ESTABLISHED 1875

**CONCRETE  
EQUIPMENT**

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**STOW**  
ESTABLISHED 1875

# CONCRETE

# vibrators



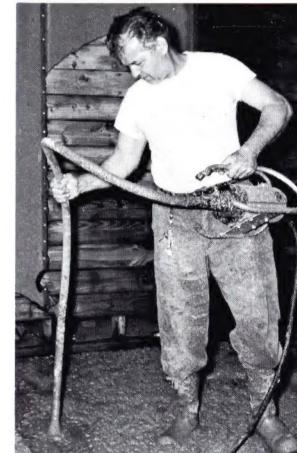
**200E**

2538 Head (2½" x 10")  
Standard—Other sizes available.

## IDEAL FOR TOUGH JOBS

- 2 H.P. Universal Motor, 20 Amps and 10,000 VPM
- Range 10,000 VPM to 12,000 VPM
- Operates on 115 volt AC or DC, 25 to 60 cycle (optional with 220 volt)
- Standard with the 2½" (optional with 2", 1½" or 1¼") diameter head
- 10 ft. 3 conductor, type 50, No. 12 AWG cord 3-prong, twist lock plug
- CSA approved
- **Important:** Use 3-wire extension cord; 1 wire for ground. Minimum size: any length up to 50' — use No. 12 wire — over 50' use No. 10 wire — over 100' use No. 8 wire. Optional — Female Receptacle to fit 3-prong twist lock plug available.

Extremely lightweight, compact and rugged, the 200E Vibrators are designed for efficient vibration and long, trouble-free service under the roughest conditions. These vibrators can be easily taken from place to place, because of their lightweight. The skid type base, which is standard on the 200E permits the unit to be pulled around by its flexible shaft. Combines high speed with high amplitude and has the power to maintain this amplitude even in the stiffest mixes.



Standard equipment includes: Model 2538 (2½" x 10") vibrator head. Optional heads interchangeable with model 2538 are: Model 1638 (1½" x 11"), Model 2038 (2" x 11"), and Model 1238 (1¼" x 13"). Also, finned heads are available. These heads require model 382V shafting. Due to the extremely high operating speeds, grinding attachments are not recommended for use with this machine. (See grinding machines, Page 14.)

**Note:** In selecting generators, 1 H.P. equals 1 K.W. for fin heads. (See Page 8.)

At right are shown a few possible combinations of flexible shafts. For longer lengths or other combinations, order additional standard lengths of 382V Flexible Shafts and Connectors. Standard lengths are 2', 3', 4', 5', 6', 7', 8', 10', 14' and 21'. See page 7 for flexible shafts. Maximum length 35 feet. For fin head add an F to model no. at right.

Vibrator Model No. When Using 1238 Head	Vibrator Model No. When Using 1638 Head	Vibrator Model No. When Using 2038 Head	Vibrator Model No. When Using 2538 Head	Flexible Shafts		No. of Connectors	Approximate Net Weight Lbs.			
				No.	Model and Length		1238	1638	2038	2538
200E	200E	200E	200E	—	Motor Ass'y Only	—	31	31	31	31
200E 2-1238	200E 2-1638	200E 2-2038	200E 2-2538	1	382V x 2 ft.	—	37	39	41	44
200E 3-1238	200E 3-1638	200E 3-2038	200E 3-2538	1	382V x 3 ft.	—	38	40	42	45
200E 4-1238	200E 4-1638	200E 4-2038	200E 4-2538	1	382V x 4 ft.	—	40	42	44	47
200E 5-1238	200E 5-1638	200E 5-2038	200E 5-2538	1	382V x 5 ft.	—	41	43	45	48
200E 6-1238	200E 6-1638	200E 6-2038	200E 6-2538	1	382V x 6 ft.	—	43	45	47	50
200E 7-1238	200E 7-1638	200E 7-2038	200E 7-2538	1	382V x 7 ft.	—	44	46	48	51
200E 8-1238	200E 8-1638	200E 8-2038	200E 8-2538	1	382V x 8 ft.	—	45	47	49	52
200E 10-1238	200E 10-1638	200E 10-2038	200E 10-2538	1	382V x 10 ft.	—	47	49	51	54
200E 14-1238	200E 14-1638	200E 14-2038	200E 14-2538	1	382V x 14 ft.	—	52	54	56	59
200E 2-7-1238	200E 2-7-1638	200E 2-7-2038	200E 2-7-2538	2	382V x 7 ft.	1	56	58	60	63
200E 21-1238	200E 21-1638	200E 21-2038	200E 21-2538	1	382V x 21 ft.	—	61	63	65	68

# STOW 130E POWER MIDGET VIBRATORS



Vibrating Narrow Forms  
with 130E Vibrator

## IDEAL FOR NARROW FORMS

- 1 1/3 HP (Min.) Universal motor
- Range 10,000 VPM to 16,000 VPM
- Operates on 115 volt AC or DC, 25 to 60 cycle
- Standard with 1 1/4" (optional with 1 5/8", or 2" head) (optional with 220 volt)
- 10 ft., 3 conductor, type SO, No. 14AWG cord and 3-prong twist lock plug
- Rated 13 Amps at 10,000 RPM
- CSA approved

Important: Use 3-wire extension cord; 1 wire for ground. Minimum size: any length up to 150' — use No. 12 wire. Optional — Female Receptacle to fit 3-prong twist lock plug available.



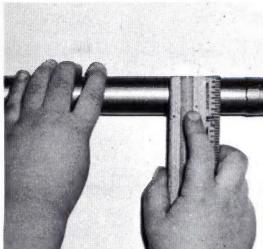
Small in size and lightweight, the rugged little 130E vibrator is ideal for narrow forms on both small and large jobs. It is powered by a rugged 1 1/3 HP Universal Motor, with switch mounted near the handle for easy starting and stopping. Model 382V flexible shafting is available in 2', 3', 4', 5', 6', 7', 8', 10', 14', and 21' lengths. Standard equipment includes a Model 1238 (1 1/4" x 13") vibrator head optional with Model 1638 (1 5/8" x 11") vibrator head, or Model 2038 (2" x 11") vibrator head. Also available as optional but not interchangeable is Model 9031 (1 5/16" x 10") vibrator head, which requires 313V flexible shafting and QD Motor Coupling #13790. (In ordering specify the model number that includes the correct length flexible shaft and model head desired. See chart at lower right.)

Various combinations of different length flexible shafts may be attached together using the 382V connector to make up a

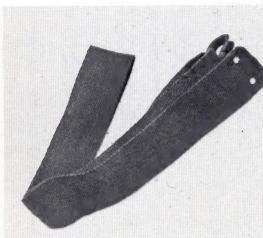
maximum length with the 1238 and 1638 heads of 28 feet, and with the 2038 head 21 feet. The flexible shafts are attached to the motor with a Quick Disconnect coupling so that flexible shafts can be disconnected or hooked up in seconds making it easier to move the vibrator around on the job as well as switching to another length flexible shaft. Because of extremely high operating speeds the grinding attachments are not recommended for use with the 130E vibrator (see page 14).

**SPECIAL NOTE:** Old style 1250, 1600 and 2000 heads can **not** be used on 382V shafts **nor** can the new-style 1238, 1638 and 2038 heads be used on old-style 40V or 40EU flexible shafts. However, 40EU and 40V flexible shafts can be attached to the 130E motor, and new-style 382V flexible shafts can be attached to any old-style Stow vibrators except 70E.

## ONE MOTOR—THREE DIFFERENT HEADS ON SAME FLEXIBLE SHAFT



9031 (1 5/16" x 10") OPTIONAL  
MUST USE 313V SHAFT



CARRYING STRAPS ARE AVAILABLE AS OPTIONAL ACCESSORIES



Fin heads also available for all heads, see  
Page 8.

Vibrator Model No. When Using 1238 Head	Vibrator Model No. When Using 1638 Head	Vibrator Model No. When Using 2038 Head	Flexible Shafts		No. of Connectors	Approximate Net Weight Lbs.		
			No.	Model & Length		With 1238	With 1638	With 2038
130E	130E	130E	—	Motor Ass'y Only	—	22	22	22
130E 2-1238	130E 2-1638	130E 2-2038	1	382 V x 2 ft.	—	28	30	32
130E 3-1238	130E 3-1638	130E 3-2038	1	382 V x 3 ft.	—	29	31	33
130E 4-1238	130E 4-1638	130E 4-2038	1	382 V x 4 ft.	—	31	33	35
130E 5-1238	130E 5-1638	130E 5-2038	1	382 V x 5 ft.	—	32	35	37
130E 6-1238	130E 6-1638	130E 6-2038	1	382 V x 6 ft.	—	34	36	38
130E 7-1238	130E 7-1638	130E 7-2038	1	382 V x 7 ft.	—	35	37	39
130E 8-1238	130E 8-1638	130E 8-2038	1	382 V x 8 ft.	—	36	38	40
130E 10-1238	130E 10-1638	130E 10-2038	1	382 V x 10 ft.	—	38	40	42
130E 14-1238	130E 14-1638	130E 14-2038	1	382 V x 14 ft.	—	43	45	47
130E 2-7-1238	130E 2-7-1638	130E 2-7-2038	2	382 V x 7 ft.	1	47	49	51
130E 21-1238	130E 21-1638		1	382 V x 21 ft.	—	53	55	

Above are the standard combinations of flexible shafts. For longer lengths or other combinations order additional lengths of 382V flexible shafts and 382V connectors. Maximum length 28 feet with all heads except 2038 (which is 21 feet). Standard lengths of 382V shafting are 2', 3', 4', 5', 6', 7', 8', 10', 14', 21'. For models with fin heads add an F on to end of model numbers shown above. See page 7 for flexible shaft details.



# 71E BABY-BRUTE VIBRATORS

## IDEAL FOR CONSOLIDATING CONCRETE IN NARROW FORMS AND SMALL JOBS

- One Man Operation
- Light Weight
- Skid Base (Protects motor no matter how it is put down)
- High Amplitude and High Speed (Provides fast consolidation)
- Built for Long Life
- 3/4 HP Universal Streamlined Motor
- Speed 10,000 VPM to 12,000 VPM
- Operates on 115 Volt AC or DC, 25 to 60 Cycle (Optional with 220 volt)
- Takes two heads: either 15/16" x 10" or 1 1/4" x 12"
- Rated 7 Amps at 10500 RPM
- CSA approved

**LIGHT WEIGHT,  
ONLY 13 LBS.  
(with 5 ft. shaft)**



- 10 ft., 3 conductor, type SO No. 16AWG cord and 3-prong twist lock plug

**IMPORTANT:** Use 3-wire extension cord. 1 wire for ground. Minimum size: any length up to 150' use No. 14 wire. Optional — Female receptacle to fit 3-prong twist lock plug available.



**SPECIAL NOTE:** Old style 931 and 1231 heads can **not** be used on new style 313V and 314V flexible shafts **nor** can the new style 9031 and 12031 be used on old style 311V and 312V flexible shafts. However, any of the above flexible shafts can be attached to either the 70E or 71E motor.

Small in size and extremely light in weight, the rugged 71E Baby-Brute vibrator is ideal for narrow forms and small jobs. The 71E consists of a 3/4 HP Universal motor, and a high quality, high-speed flexible shaft which drives a vibrator head (either 15/16" or 1 1/4" diameter). The 3/4 HP motor has a convenient switch and is mounted on a base that serves as a handle and is designed so that the motor is protected no matter how it is laid down. A screen on the front keeps dirt from getting into the motor. The Model 9031 (15/16" x 10") vibrator head requires Model 313V flexible shafting while the Model 12031 (1 1/4" x 12") vibrator head requires Model 314V flexible shafting. The flexible shafts are available in various lengths as shown in the chart below. The cases for the 313V and 314V flexible shafts are interchangeable, **but the cores are not.** Because of extremely high operating speeds, the grinding attachments are not recommended for use with the Baby-Brute vibrator (see Page 14).

For details on the heads and shafts see other side.

## FLEXIBLE SHAFT AND VIBRATOR HEAD COMBINATIONS FOR 71E BABY-BRUTE VIBRATOR

Model Number	Flexible Shafts		Head		Net Weight
	Qty.	Model & Length	Model	Dia.	
71E	—	Motor & Base Only	—	—	
71E 2-9031	1	313V x 2 ft.	9031	15/16"	9 lbs.
71E 3-9031	1	313V x 3 ft.	9031	15/16"	12 lbs.
71E 4-9031	1	313V x 4 ft.	9031	15/16"	12 1/2 lbs.
71E 5-9031	1	313V x 5 ft.	9031	15/16"	13 lbs.
71E 6-9031	1	313V x 6 ft.	9031	15/16"	13 1/2 lbs.
71E 7-9031	1	313V x 7 ft.	9031	15/16"	14 lbs.
71E 10-9031	1	313V x 10 ft.	9031	15/16"	14 1/2 lbs.
71E 2-12031	1	314V x 2 ft.	12031	1 1/4"	14 lbs.
71E 3-12031	1	314V x 3 ft.	12031	1 1/4"	14 1/2 lbs.
71E 4-12031	1	314V x 4 ft.	12031	1 1/4"	15 lbs.
71E 5-12031	1	314V x 5 ft.	12031	1 1/4"	15 1/2 lbs.
71E 6-12031	1	314V x 6 ft.	12031	1 1/4"	16 lbs.
71E 8-12031	1	314V x 8 ft.	12031	1 1/4"	17 lbs.
71E 10-12031	1	314V x 10 ft.	12031	1 1/4"	19 lbs.

# COMPACTION OF CONCRETE BY INTERNAL VIBRATION

The purpose of this bulletin is to explain briefly why and how concrete vibrators are used; and to bring to light some new information on the performance of concrete vibrators under different conditions.

For additional information of VIBRATING CONCRETE ask for Bulletin 672

## WHY VIBRATE?

The action of vibration is to set the particles in the fresh concrete in motion; thereby reducing the friction between the particles and giving the mixture the mobile quality of a thick fluid so that gravity and the displacement of entrapped air will cause it to settle easily into place. By thus consolidating the concrete quickly, "stiffer" or "drier" mixes can be poured than would otherwise be possible. It has been proven that (up to a point) the drier the concrete, (that is, the less water in it), the better the quality throughout and the greater the strength. Drier mixes also make the concrete more water tight, increase resistance to weathering, and create a better bond between concrete and reinforcement. Because vibration causes much of the entrapped air in the concrete to rise to the surface, honeycombing is prevented. Also, vibration eliminates most of the air pockets between the concrete and the vertical forms.

For these reasons, most job specifications require vibration. For example—(here is a typical excerpt from a specification): "vibrators shall be of a sturdy construction, adequately powered, and capable of transmitting to concrete no less than 9,000 impulses per minute. The vibrations shall be sufficiently intense to cause the concrete to flow or settle readily into place and to visibly effect the concrete over a radius of at least 18 inches when used in concrete having 1" slump. A sufficient number of vibrators should be employed so that the required rate of placement vibration is maintained throughout the entire volume of each layer of concrete and complete compaction is secured. At least one extra vibrator should be on hand for emergency use."

## DIFFERENT TYPES OF CONCRETE VIBRATORS

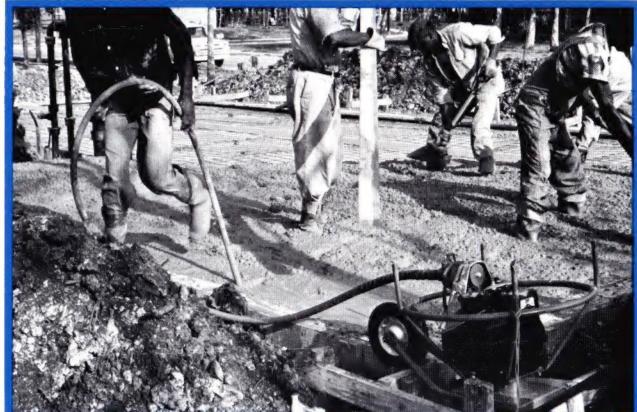
Essentially all internal concrete vibrators have a "head" which must be immersed in the concrete. The head is tubular, and contains a bearing-mounted eccentric on the inside, which rotates at high speed. When this eccentric (which is merely a weight whose center is offset from its axis) rotates, it has the effect of a whirling weight on the end of a string. The centrifugal force which is generated creates the vibration; each revolution is considered one cycle of vibration.

### MOTOR-IN-HEAD TYPE

The Stow YUB 60 Cycle motor-in-head vibrator can be plugged into regular 115V house current. As the name implies, the motor is built into the head itself, along with the eccentric. This unit lends itself easily to "one-man" operation. However, the YUB does have limitations since the head size cannot be less than 2 3/4" in diameter, due to the extreme difficulty of building a smaller motor which will hold up under the constant vibration.

If the unit is run free of the concrete for any length of time or is operated on low voltage, "burn-outs" can occur.

The "hy-cycle" type is similar to the 60 cycle motor-in-head vibrator except that it operates off a 180 cycle generator, which means the contractor must have a special generator.



Stow 400G Gas Vibrator on floor slab.

The head size on Stow hy-cycle vibrators is 1 1/8" or 2 1/2". Since these units do not have brushes in them (they are 3-phase motors), the maintenance cost is generally lower than the 60 cycle motor-in-head vibrator. Hy-cycle vibrators are available for use with either 110 volt or 220 volt hy-cycle generators. This type vibrator is most popular for use on highway bridges, because one man can operate the unit even though there is no source of electricity on the job other than the generator, and because the hy-cycle vibrator delivers greater amplitude of vibration than the 60 cycle motor-in-head type.

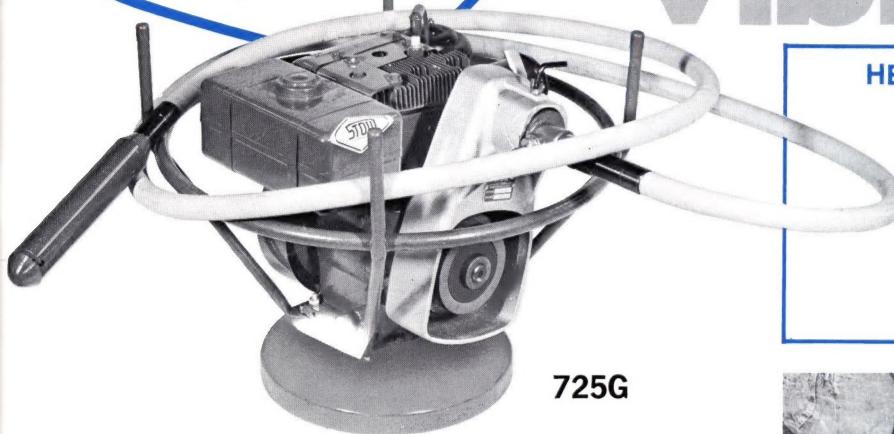
### FLEXIBLE SHAFT TYPE

The most popular type of vibrator for general use is the "flexible shaft" type. It is driven either by a gasoline engine or a universal motor. It has a flexible shaft (similar to the speedometer drive on a car, only heavier), which drives the eccentric inside the vibrating head. Flexible shaft type vibrators are the most popular because:

1. Less maintenance is generally required than with other types.
2. These units are more versatile. There is a greater variety of head sizes available (1 1/8", 1 1/4", 1 5/8", 2", 2 1/2"), and flexible shafts are available in different lengths; by coupling flexible shafts together, lengths up to 35 ft. are possible. Of course the size of the motor has a bearing on the maximum length which can be used.
3. In recent years, universal electric motors have been made lighter in weight, yet they deliver either the same or greater horsepower. Thus, with the 3/4 H.P. (71E) or 1 1/2 H.P. (130E) sizes, one man can carry and operate the vibrator at the same time. With a gas-powered unit or a larger motor, it would be necessary to set the power plant down at one point while the operator manipulates the flexible shaft in the concrete. Often a second man is required to move the power source around.
4. Normally, these units maintain speeds in ranges from 9,000 to 13,000 vibrations per minute and with relatively high amplitude.

## GASOLINE OPERATED CONCRETE

## vibrators



725G

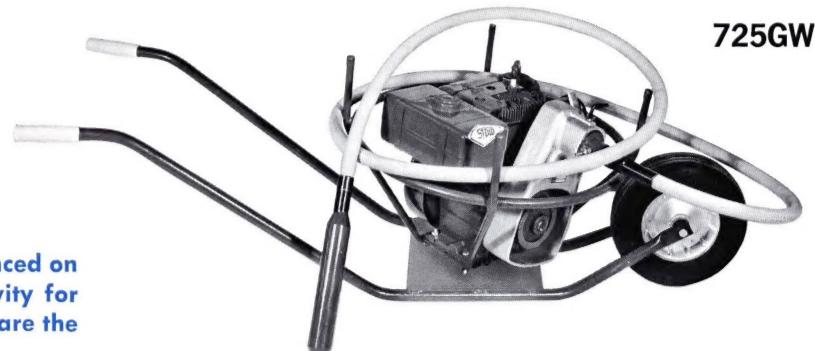
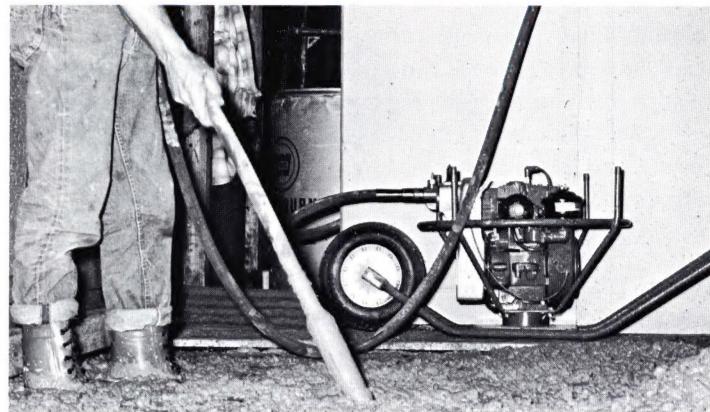
**Model 725G.** Vibrators in the 725G series are heavy-duty vibrators. Model 725G is particularly recommended for compacting thick floor slabs, walls, piles and foundations, for highways, airport runways and aprons. High operating speeds make possible the use of more efficient, heavy-duty, lightweight vibrator heads. The 725G model features combination ring-guard and carry-handle which also supports the flexible shaft when unit is not in use. Standard equipment on 725G and 725GW includes one Model 2538 vibrator head with a hardened steel tip. Heads interchangeable but optional with Model 2538 are: Model 1238 (1 1/4" x 13"), Model 1638 (1 5/8" x 11"), Model 2038 (2" x 11"). Also available, are Fin heads. (See Page 8 on vibrator heads). Due to high speed, grinding attachments are not recommended on the 725G vibrator. (For grinders, see Page 14).

**Model 725GW** is sturdily mounted and carefully balanced on a rubber-tired wheelbarrow with low center of gravity for easy maneuverability. Specifications for this vibrator are the same as for Model 725G.

At right are shown a few of the possible combinations of flexible shaft. For longer lengths or other combinations order additional standard lengths of 382V flexible shafts and connectors. Maximum length on 725G 35 ft. When wheelbarrow is required add W to the end of 725G (such as 725GW 7-1238). When Fin head is wanted add an F to end of model numbers.

## HEAVY-DUTY FOR THE LARGE JOBS

- 725G, 725GW Vibrators
- 10,200 VPM at head when engine RPM is 3400
- 7.25 H.P. 4 cycle air-cooled engine
- Eccentric belt tensioner
- Full 360° swivel mounting
- Standard head 2538 (2 1/2" x 10")
- Other sizes and fin heads available



725GW

Vibrator Model No. When Using 1238	Vibrator Model No. When Using 1638	Vibrator Model No. When Using 2038	Vibrator Model No. When Using 2538	No.	Flexible Shafts Model and Length	No. of Connectors	Approximate Net Weight Lbs.*			
							with 1238	with 1638	with 2038	with 2538
725G	725G	725G	725G	—	Motor and Frame Assembly	—	119	119	119	119
725G 7-1238	725G 7-1638	725G 7-2038	725G 7-2538	1	382V x 7 ft.	—	126	138	140	144
725G 2-7-1238	725G 2-7-1638	725G 2-7-2038	725G 2-7-2538	2	382V x 7 ft.	1	151	153	155	159
725G 3-7-1238	725G 3-7-1638	725G 3-7-2038	725G 3-7-2538	3	382V x 7 ft.	2	166	168	171	175
725G 4-7-1238	725G 4-7-1638	725G 4-7-2038	725G 4-7-2538	4	382V x 7 ft.	3	180	182	185	189
725G 5-7-1238	725G 5-7-1638	725G 5-7-2038	725G 5-7-2538	5	382V x 7 ft.	4	195	197	200	204
725G 10-1238	725G 10-1638	725G 10-2038	725G 10-2538	1	382V x 10 ft.	—	142	145	148	152
725G 14-1238	725G 14-1638	725G 14-2038	725G 14-2538	1	382V x 14 ft.	—	150	153	156	161
725G 2-14-1238	725G 2-14-1638	725G 2-14-2038	725G 2-14-2538	2	382V x 14 ft.	1	165	168	171	175
725G 21-1238	725G 21-1638	725G 21-2038	725G 21-2538	1	382V x 21 ft.	—	163	165	168	172

\*Add 25 lbs. for wheelbarrow unit.



#### Light Weight, Gasoline Operated

- 400G, 400GW Vibrators
- 10,200 VPM at head when engine RPM is 3400
- 4 H.P. 4 cycle air-cooled engine
- Eccentric belt tensioner
- Full 360° swivel mounting
- Standard head 1638 (1 5/8" x 11")
- Other sizes and Fin heads available

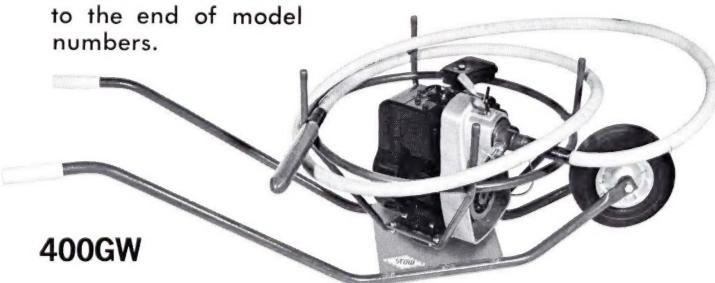
**Model 400G.** The 400G series are light-duty vibrators especially suited to general construction and specifically designed to provide the general contractor with a rugged, dependable, high-efficiency vibrator that is economical and trouble-free. The 400G uses the same flexible shafting as heavier duty models. Standard equipment includes one Model 1638

(1 5/8" x 11") vibrator head with hardened steel tip. Rubber tip is available. Models 1238 (1 1/4" x 13"), 2538 (2 1/2" x 10"), 2038 (2" x 11") vibrator heads also available as optional to fit the 400G and 400GW vibrators, fin head also available. Combination ring-guard and carry-handle supports flexible shaft when unit is not in use.

At right are shown a few of the possible combinations of flexible shafts. For longer lengths or other combinations order additional standard lengths of 382V flexible shafts and connectors. Maximum length on 400G is 35 ft. with a 1238 or 1638 head and 28 ft. with a 2038 or 2538 head. When wheelbarrow is required add W to the end of 400G (such as 400 GW 7-1238). When Fin head is wanted add an F on to the end of model numbers.

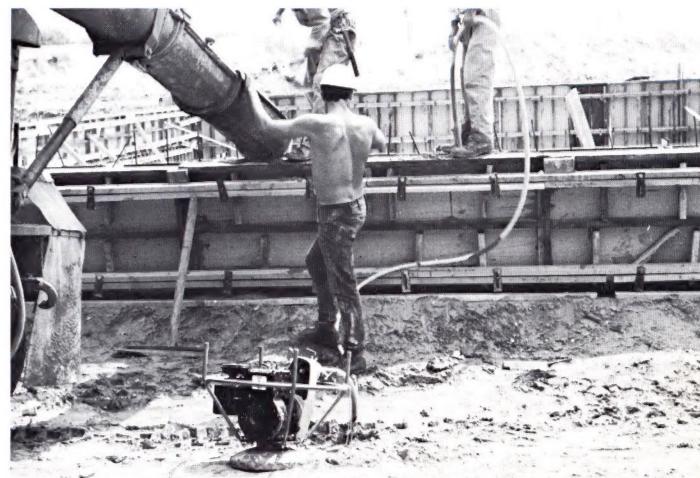
Vibrator Model No. When Using 1238 Head		Vibrator Model No. When Using 1638 Head		Vibrator Model No. When Using 2038 Head		Vibrator Model No. When Using 2538 Head		No.	Flexible Shafts Model and Length	No. of Connectors	Approximate Net Weight Lbs.*			
											with 1238	with 1638	with 2038	with 2538
400G	400G	400G	400G	400G	400G	400G	400G	—	Motor and Frame Assembly	—	72	72	72	72
400G 7-1238	400G 7-1638	400G 7-2038	400G 7-2538					1	382V x 7 ft.	—	89	94	97	101
400G 2-7-1238	400G 2-7-1638	400G 2-7-2038	400G 2-7-2538					2	382V x 7 ft.	1	104	106	109	113
400G 3-7-1238	400G 3-7-1638	400G 3-7-2038	400G 3-7-2538					3	382V x 7 ft.	2	119	121	124	128
400G 4-7-1238	400G 4-7-1638	400G 4-7-2038	400G 4-7-2538					4	382V x 7 ft.	3	134	136	135	143
400G 5-7-1238	400G 5-7-1638	400G 5-7-2038	400G 5-7-2538					5	382V x 7 ft.	4	149	151	154	158
400G 10-1238	400G 10-1638	400G 10-2038	400G 10-2538					1	382V x 10 ft.	—	95	97	100	104
400G 14-1238	400G 14-1638	400G 14-2038	400G 14-2538					1	382V x 14 ft.	—	103	105	108	111
400G 2-14-1238	400G 2-14-1638	400G 2-14-2038	400G 2-14-2538					2	382V x 14 ft.	1	132	134	137	140
400G 21-1238	400G 21-1638	400G 21-2038	400G 21-2538					1	382V x 21 ft.	—	117	117	122	126

\*Add 25 lbs. for wheelbarrow unit.



**Model 400GW** is sturdily mounted and carefully balanced on a rubber tired wheelbarrow with a low center of gravity for easy maneuverability. Specifications for this vibrator are the same as for Model 400G.

Due to high speeds the 400G is not recommended for grinding. (See page 14 for grinders.)





# FLEXIBLE SHAFTING AND HANDLING HOSE FOR CONCRETE VIBRATORS

BUL. 660-4



382V SHAFT (YELLOW)



313V AND 314V SHAFTS (BLUE)



The Stow 313V, 314V and 382V flexible shafts consist of an inner rotating high-speed core which is made up of layers of the highest quality of music wire. This is covered with a rugged casing which is lined with oil tempered spring steel, reinforced with wire braid, and covered with an oil-resistant neoprene-impregnated fabric, and abrasion-resistant rubber jacket. These rugged flexible shafts have great transverse stiffness and resistance to stretching under the most severe conditions.

The 313V and 314V flexible shafts are identical, except that the core assemblies are not the same length and the square on the core is not the same length. The cases are therefore interchangeable but not the cores.

## FORMER STYLE FLEXIBLE SHAFTS

The 40EU, 31EU and 40V flexible shafts, while still available for replacement, are no longer standard on Stow vibrators.

**40EU Flexible** — For Model 1250 Vibrator Head: 40EU flexible shafts are available in the following lengths: 2', 3', 4', 5', 6', 7', 10', 14', and 21'. The 40EU shafting may be attached to 40V shafting by use of 40V connector. To connect multiple lengths of 40EU shafting use 40EU connector. Note: 40EU and former 40DU shafting are interchangeable.

**31EU Flexible Shaft with Adapters** — For Model 880 Vibrator Head: 31EU flexible shafts are available in lengths of 3' and 5' only; adapters are furnished with 31EU flexible shafts for attaching to EU motor or 40V connector. Note: 31EU and former 31DU shafting are interchangeable.

**383V Flexible Shaft** — For Model 2538EP (2½" x 10") Vibrator Head 383V flexible shafts are 30" long standard, ¾" diameter core. (For use on 200 EP and 201 EP vibrators only)

**40V Flexible Shaft** — For Models 1600, 2000, 2500 Vibrator Heads: 40V flexible shafts are available in the following standard lengths: 3', 7', 10', 14', and 21'. Angleheads and handpieces shown in Bulletin 610-7 may be used directly on 40V vibrator shafts.



40V SHAFT (RED)



312V AND 311V SHAFT (BLACK)

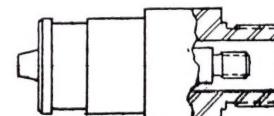
**311V and 312V Flexible Shafting** are designed to attach only to the old style 931 and 1231 vibrator heads. The 311V and 312V are standard in 2', 4', 5', 6', 7' and 8' lengths. These flexible shafts are no longer standard but are still available for replacement for the former 70E vibrator.

**382V Flexible Shaft (yellow)** — For Models 1238, 1638, 2038, 2538 Vibrator Heads: 382V flexible shafts are available in the following lengths: 2', 3', 4', 5', 6', 7', 8', 10', 14', and 21'. To connect multiple lengths of 382V shafting use 382V connector. To connect up 382V shafting with other flexible shafts see diagram below right.



382V BALL BEARING CONNECTOR

Part #13883-501



382V Q.D. MOTOR COUPLING

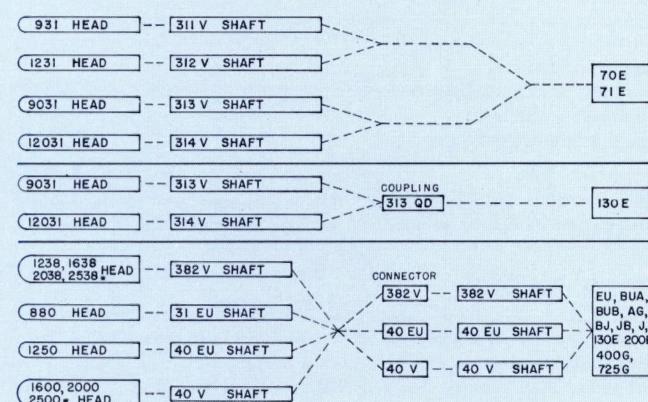
Part #13785-501

(Furnished as part of power source)

**50 Flexible Tool Shafts** — For Grinders and Ceiling Grinders: the 50 tool shaft has ½" diameter core. Lengths are as follows: on the 50 tool shaft, for JT-50A and JG-50 grinders 8' and 12'; for ceiling grinders 9', 11', 12', 16'.

**YUB and HC Cases** — For 60 cycle Motor-in-Head YUB Vibrator, YUB cases are available as follows: YUB 7 (7 ft.); YUB 14 (14 ft.). For 180 cycle Motor-in-Head HC vibrator, HC 7 (7 ft.); HC 14 (14 ft.)

SCHEMATIC DIAGRAM SHOWING HEAD & SHAFT COMBINATIONS



\* 2538 & 2500 HEADS USED ON BUA, BUB, AG, J, 400G, 725G, 200E ONLY



31 EU SHAFT (BLACK)



40EU SHAFT (RED)

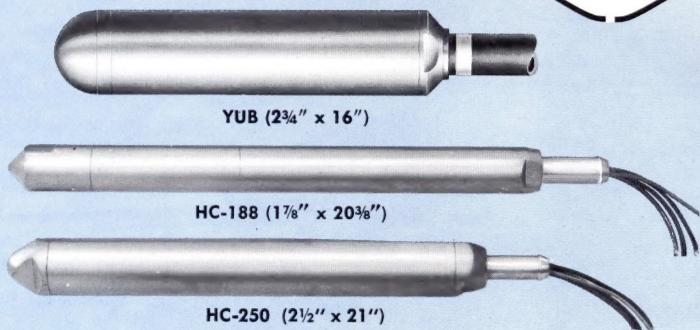


40V BALL BEARING CONNECTOR



40EU BALL BEARING CONNECTOR

# VIBRATOR HEADS by



## HIGH AMPLITUDE VIBRATOR HEADS

Stow vibrator heads pack a real wallop, deliver better performance on the job because they are lighter weight, higher speed, give top vibrating frequency! An eccentric weight is mounted in ball bearings at each end, for maximum rigidity and load capacity. A high-speed shaft seal retains oil lubricant for life. A splash oil bath insures adequate bearing lubrication in all positions used in concrete vibrations.

Steel tip, standard. Rubber tip, optional on Model 1638. ORDER PART #13807-502 for complete head.

**NEW HEADS**—The new Stow high-amplitude vibrator heads are models 1238, 1638, 2038, and 2538. Fin heads are available as optional on all but the two largest; they are 1238F and 1638F. All of these heads except the 2538 can be furnished as standard on the 130E. Also, they can be used on any other Stow flexible shaft vibrator (except the 71E) by using 382V (yellow) flexible shafting.

Model 1238—(1 $\frac{1}{4}$ " x 13")

Requires 382V shafting. Weight 3 Lbs.

Model 1238F (1 $\frac{1}{4}$ " x 13")

Same as 1238 except with 4 fins.

Model 1638 (1 $\frac{1}{8}$ " x 11")

Requires 382V shafting. Weight 5 Lbs.

Model 1638F (1 $\frac{1}{8}$ " x 11")

Same as 1638 except with 4 fins.

Model 2038 (2" x 11")

Requires 382V shafting. Weight 7 Lbs.

Model 2538 (2 $\frac{1}{2}$ " x 10")

Requires 382V shafting. Weight 9 Lbs.

Model 9031 and 12031—Standard on 71E. 9031 can be used on 130E by using 313V shafting, and 12031 by using 314V shafting, but both shafts must be connected to 130E motor with 313QD coupling. #13790-501.

## FORMER STYLE HEADS

Model 880 (7/8" x 10" long). Requires 31EU flexible shafting to fit EUA vibrator. Can be connected to other vibrators as shown in sketch previous page. Weight 3 Lbs.

Model 880F (7/8" x 10" long). Same as 880 except with 4 fins.

Model 1250 (1 $\frac{1}{4}$ " x 10" long). Requires 40EU flexible shafting. Weight 4 $\frac{1}{2}$  Lbs.

Model 1250F (1 $\frac{1}{4}$ " x 10" long). Same as 1250 except with 4 fins.

Model 1600 (1 $\frac{1}{8}$ " x 10" long). Standard equipment on Model JB and BG Vibrator. Optional on Model AG, BUA, and EU Vibrators. Interchangeable steel or rubber tip. Requires 40V flexible shafting. Weight 5 Lbs.

Model 1600F (1 $\frac{1}{8}$ " x 10" long). Same as 1600 except with 4 fins.

Model 2000 (2" x 10"). Optional on Model AG, BG, BUA, JB, EU Vibrators. Steel tip. Requires 40V flexible shafting. Weight 7 Lbs.

Model 2500 (2 $\frac{1}{2}$ " x 10" long). Standard equipment on Model AG, BUA and J Vibrators. Requires 40V flexible shafting. Steel tip only. Weight 11 Lbs.

Model 2538EP (2 $\frac{1}{2}$ " x 10"). Standard equipment on 200EP and 201EP Gang Paver Vibrators, requires 383V flexible shafting. Steel tip only. Weight 11 Lbs.

## HIGH FREQUENCY VIBRATOR HEADS

YUB 60 Cycle Motor-in-Head (2 $\frac{3}{4}$ " x 16"). Standard equipment on Model YUB Vibrator. This 60 cycle motor-in-head vibrator head requires no field maintenance. Five-minute replacement. The vibration is low in amplitude but high in frequency, making it easier on the forms. Depending on concrete slump, amperage at 115 volts AC or DC varies from 4.5 to 5.5 amps. Weight: 20 lbs.

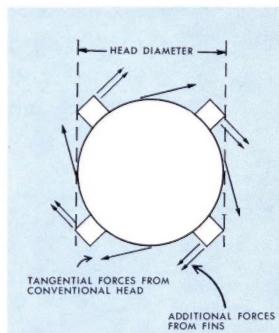
Hy-Cycle Heads: (180 cycle) Model HC-250 (2 $\frac{1}{2}$ " x 21") and Model HC-188 (1 $\frac{1}{8}$ " x 20 $\frac{3}{8}$ ") are standard on the Hy-Cycle. Vibration is primarily in a direction tangential to the outer surface, amplitude. No brushes to wear out.

## NEW STOW "FIN-HEAD"



Here is a new concept in concrete vibrator heads available optionally on all Stow flexible shaft-type vibrators.

To illustrate the principle of the Stow fin-head it should be pointed out first that on conventional round heads the force of vibration is primarily in a direction tangential to the outer surface, due to the rotating action of the eccentric. Thus, a great deal of force generated is not used since the round head does not have much area actually pushing against the concrete. The new STOW "Fin-Head," however, has four strips welded to the surface of the head. These fins present a perpendicular surface which the tangential action of the vibrator head punches smartly into the mix and so increases the efficiency of the vibration tremendously. The stiffer the mix the greater is this increase in efficiency over the conventional round heads. Tests



show that the fin-head not only outperforms a square head that is on the market but also outlasts it considerably. Contractors, of course, should be cautioned that the fins would tend to mar plywood where such forms are used.



# HY-CYCLE (HC)

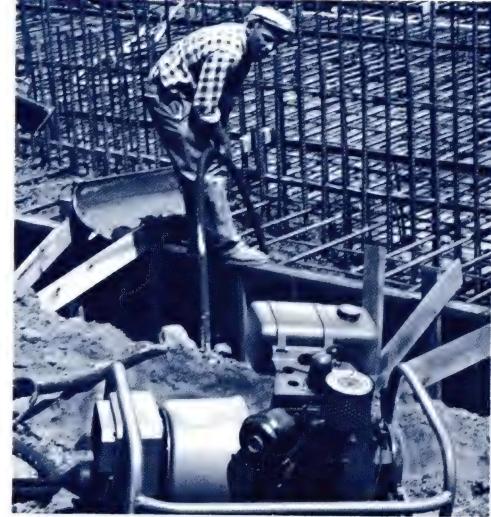
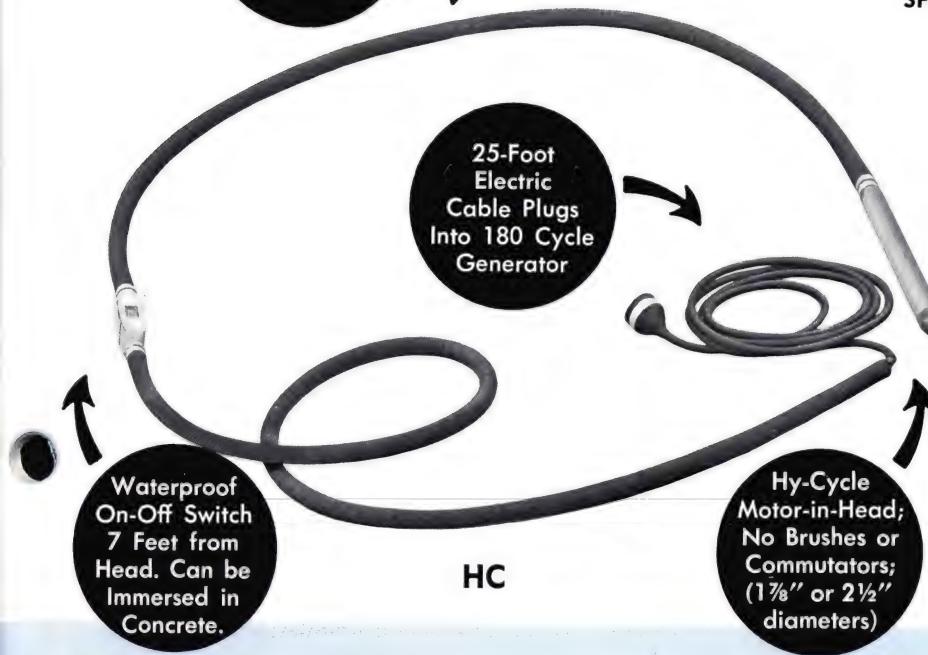
## MOTOR-IN-HEAD CONCRETE VIBRATOR high frequency plus high amplitude

180 CYCLE

Strong  
4-Ply Flexible  
Casing; only  
Electric Wires  
Inside

Standard equipment for the Model HC-250 vibrator includes a  $2\frac{1}{2}'' \times 21''$  vibrator head with the 230 volt, 3 phase, 180 cycle motor built in, a length of casing, a switch, and a 25-foot electric cable. The Model HC-188 is the same except the vibrator head is  $1\frac{1}{8}'' \times 20\frac{3}{8}''$ .

SPEED TO 10,800 VPM



**ADJUSTABLE SPEED** — The STOW HC vibrator's vibrations-per-minute can be easily adjusted to suit the job by changing the Hy-Cycle Generator engine speed. The generator and motor-in-head vibrator stay right in step because they are synchronized electrically. High speeds give you more power for dry, coarse mixes; slower speeds give reduced power for wet mixes, thin walls, or lightweight forms.

**VIBRATOR HEAD** — The completely sealed and heat-treated vibrator head contains the Hy-Cycle motor. No brushes or commutators to wear out — means STOW can design *high amplitude* into these HC heads. *High amplitude plus high frequency* results in *higher efficiency*; even the stiffest concrete can be agitated and thoroughly vibrated.

**CASING** — Electric wires are carried back to the switch inside the casing which is covered with abrasion-resistant 4-ply neoprene; lightweight and rugged, it is rigid enough to control the vibrating head, yet flexible enough to coil easily for storage.

**SWITCH** — The water-tight sealed switch is on the casing only 7 feet from the head. (located elsewhere at slight additional cost)

Model	Voltage	Specifications:			Casing Length	Net Weight
		Model	Size	Vibrator Head		
HC-188-7	230*	HC-188	$1\frac{1}{8}'' \times 20\frac{3}{8}''$	HC-188	7'	15 lbs.
HC-188-14	230*	HC-188	$1\frac{1}{8}'' \times 20\frac{3}{8}''$	HC-188	14'	20 lbs.
HC-188-21	230*	HC-188	$1\frac{1}{8}'' \times 20\frac{3}{8}''$	HC-188	21'	24 lbs.
DRAWS 1.4 AMPS. IN AIR						
HC-250-7	230*	HC-250	$2\frac{1}{2}'' \times 21''$	HC-250	7'	23 lbs.
HC-250-14	230*	HC-250	$2\frac{1}{2}'' \times 21''$	HC-250	14'	28 lbs.
HC-250-21	230*	HC-250	$2\frac{1}{2}'' \times 21''$	HC-250	21'	32 lbs.
DRAWS 2.2 AMPS. IN AIR						

\*Optional Voltage: When specified, special 120 volt, 180 cycle, 3 phase windings will be furnished at no extra cost in place of standard 230 volt windings. Specify by adding the letter "M" to model number. For example: HCM-188-7.



# HCG Hy-Cycle GENERATORS



HCG-1



FOR EXTRA  
CAPACITY

Model 3MV55 Kohler

## EXTRA ACCESSORIES

"Y" Connector has one male 4-prong twist-lock plug on one end and two female twist-lock plugs on the other end; permits simultaneous operation of two HC-188 vibrators or alternate operation of two HC-250 vibrators from one HCG-1 generator.



## EXTENSION CABLES

with one male, one female 4-prong twist-lock plug.  
HY-50 extension cord—50' long  
HY-100 extension cord—100' long



## FEATURES: Model HCG-1

- The speed of vibration can be controlled to suit the job — merely adjust the engine throttle to the desired speed.
- The dependable 4-cycle, air-cooled gasoline engine is fast starting, smooth running.
- Simple, self-exciting permanent ALMICO magnet is easy to maintain — no brushes or slip rings to service, no adjustments to get out of order.
- Overload fuses are conveniently located on receptacle box — can be replaced in seconds.
- No gas-oil mixture is required — engine is splash lubricated from oil supply in crankcase.
- Extra duty: generator can also be used to operate 220 volt lights.

## Specifications for models HCG-1 and 3MV55 Kohler

	Model HCG-1	Model 3MV55
Capacity	one HC-250 vibrator or two HC-188 vibrators	two HC-250 vibrators or four HC-188 vibrators
Electrical Output	1000 watts, 180 cycles, 230 volts 3 phase	3000 watts, 180 cycles 230 volts, 3 phase and separate outlet 3000 watts, 115 volts DC
Engine Data	Clinton A-1200 4-cycle, 1-cylinder 4.0 B.H.P. at 3600 RPM 3 qt. fuel tank, 1 1/4 pt. crankcase cap.	Kohler K-181 4-cycle, 1-cylinder 8 B.H.P. at 3600 RPM 2 gal. fuel tank, 2 1/2 pt. crankcase capacity
Overall Dimensions	length 23" width 16" height 17 1/2"	length 28" width 16 1/2" (less cart) height 19"
Net weight	93 lbs.	211 lbs.
Standard Equipment	Voltmeter, recoil starter, muffler, air cleaner, governor, fuel filter, two 4-pole twist-lock AC receptacles, one 2-pole twist-tite DC receptacles. (3 Prong Twist-Lock) Automatic Slow-Down Device	Carrying cart, recoil starter, muffler, air cleaner, governor, fuel filter, two 4-pole twist-lock AC receptacles, one 2-pole twist-tite DC receptacles. (3 Prong Twist-Lock) Automatic Slow-Down Device



Hy-cycle  
Vibrator



Roto-Trowel



Vibrator



Grinder



Vibrating  
Screed



Baby-Brute  
Vibrator



Tamper



Porto-Screed



Ceiling Grinder



# YUB

# vibrator

## 60-CYCLE MOTOR-IN-HEAD



The YUB is  
easy handling,  
easy to carry



IMPORTANT: USE 3-WIRE EXTENSION CORD;  
1 WIRE FOR GROUND; MINIMUM SIZE ANY  
LENGTH UP TO 150' — USE NO. 14 WIRE  
OPTIONAL — FEMALE RECEPTACLE TO FIT  
3-PRONG TWIST-LOCK PLUG AVAILABLE.

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12,000 to 15,000 VPM

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Universal motor-in-head

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Operates on 115 volt, AC or DC, 25 to 60 cycle

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Fuse protection

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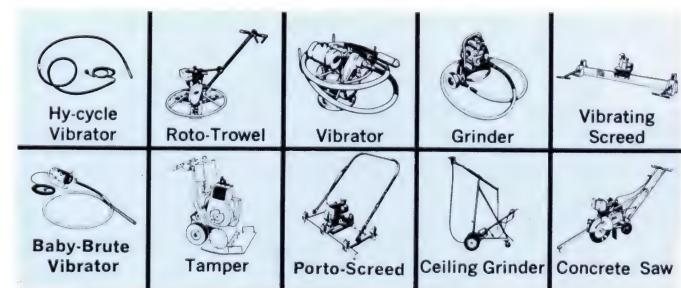
The lightweight, high-speed YUB Vibrator is extremely compact and easy to carry, since the motor is in the vibrator head. The YUB features strong wear-resistant casing which covers the electric wires and acts as a handling hose; a completely covered off-on switch near the head; and an electric cable



that plugs into any regular AC or DC outlet. Standard equipment includes: Model YUB (2 1/4") vibrator head and 25 feet of cable and 3-prong twist-lock plug. Switch is located seven feet from the vibrating head. Can be located elsewhere at slight additional cost.

Note: In selecting generators, 1 HP equals 1 KW.

CASING			
Model Number	Model	Length	Net Weight
YUB-7	YUB	7 ft.	25 lbs.
YUB-14	YUB	14 ft.	33 lbs.
YUB-21	YUB	21 ft.	41 lbs.



# GRINDING CONCRETE

(THE HOWS AND WHYS)

(WALLS, COLUMNS, HIGHWAY STRUCTURES, PRESTRESSED BEAMS,  
FLOORS, CEILINGS)

Architects' specifications during recent years have been calling more and more for finely finished concrete surfaces on walls, columns, highway structures, prestressed beams, floors and ceilings. To meet the needs of contractors, Stow has developed special grinding equipment that will finish hardened concrete surfaces quickly and effectively.

This pamphlet gives information on the proper equipment and its uses, speeds, and accessories required.

## GRINDING WALLS

There are two methods used to smooth off hardened concrete walls. One is known as "wet rubbing": green concrete is smoothed to a plaster-like finish by a slow speed grinding wheel or disc while water is applied to the surface. The other method is "dry grinding": dry concrete is smoothed by a high speed grinding wheel or abrasive disc. High speed dry grinding should not be done on green concrete as the wheel or disc will gouge the surface and also throw the grout.

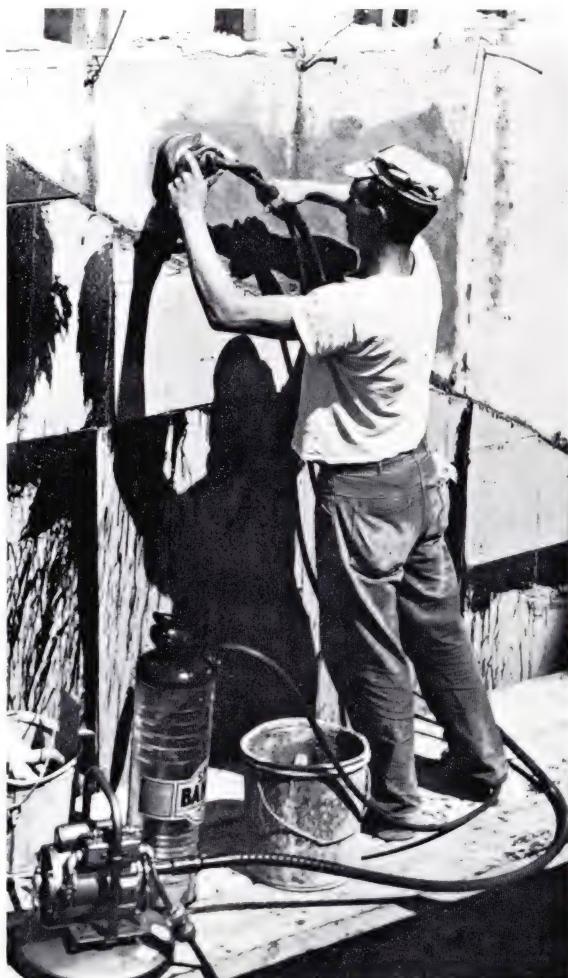
**A. WET RUBBING**—Wet rubbing is done shortly after the forms are removed to fill in voids and remove form marks. It is done with a portable machine using an abrasive cup grinding wheel—4½" or 6" in diameter, or an abrasive disc—7" or 9" in diameter. The grinding wheel or disc is used with a "wet" right angle head which is provided with an attachment so that water runs through the center of the wheel or disc onto the concrete when the operator pushes a button. A pressure tank can be used for the water supply. The water, plus the rubbing action, brings a wet cement paste up to the surface of the concrete. The surface is then rubbed into air pockets. This results in a very smooth surface. When the concrete is too dry for wet rubbing, wet cement, with low slump and fine aggregate, can be painted on with a brush and then worked in with the grinding wheel.

Wet angle heads are available in a speed ratio of 10:1 reduction for connecting to grinding machines.

Model JT-50A is an electric machine, and model JG-50 has a gasoline engine. The speeds desirable for wet rubbing are 300 to 500 RPM.



DRY GRINDING WITH STOWFLEX DISC.



WET RUBBING WITH JT-50A



# STOW CEILING GRINDERS

First in Flexible Shafting Since 1875

Grinds Concrete ceilings smoothly, quickly.  
Quickly adjusts to any desired height.  
1 HP totally enclosed motor, or 3 HP  
gas engine, 3450 RPM

## Has CSA approval

The CG Ceiling Grinder is designed to dry-grind concrete ceilings to remove form marks leaving a smooth ceiling. On a typical job, the CG Ceiling Grinder will finish 500 square feet an hour. Standard equipment includes: 9" Stowflex abrasive disc and 1/2" flexible shaft. Three models are available for different height ceilings as shown in the chart. Furnished with 3-prong twist-lock plug.

**Converting from one size to another.** Certain conversions can be made where a ceiling must be finished of a height outside the range of the particular machine. A CG-10 machine can be converted to a CG-13 by substituting a 12-foot flexible shaft and a CG-13 slide assembly. In the same manner, a CG-13 machine can be converted to a CG-10 by substituting a 9-foot flexible shaft and a CG-10 slide assembly. Neither a CG-10 nor a CG-13 machine can be converted to a CG-18 machine.

**Important:** Use 3-wire extension cord; 1 wire for ground. Minimum size: any length up to 150'—use No. 14 wire. Optional—Female receptacle to fit 3-prong twist-lock plug available.

Although most contractors prefer the electric motor, gas engines can be furnished. Note CG-10-G Model in above chart; available also on CG-13 and CG-18 models.

There are three different ways the CG Ceiling Grinder can be used to grind walls:

**1** —Reverse the flexible shaft, end for end, and connect to the motor with a different motor coupling—No. 7810-502—and attach an MB50 handpiece or a Model 50 anglehead to the flexible shaft.

**2** —Disconnect the flexible shaft at the motor end and use an 8-foot, 50 tool shaft—No. 6969-513—or a 12-foot, 50 tool shaft—No. 6969-514—and attach an MB50 handpiece or a Model 50 anglehead (see other side).

**3** —Remove the motor from the ceiling grinder and attach to a skid base part No. 8616-6 (like the JT-50A grinder) and then reverse the flexible shaft, end for end, and connect to the motor with a different motor coupling—No. 7810-502—and attach an MB50 handpiece or a Model 50 anglehead to the flexible shaft.

For more information on "How to Grind Concrete" see page 12 or ask for Bulletin 651.

**ALL STOW CEILING GRINDERS** now have swivel top  
(Makes it possible to grind next to a wall)

Model Number	Height Range	Width	HP	Slide Assembly	Flexible Shaft
CG-10	7 ft. to 11 ft. 3 in.	29 3/4"	1 electric	CG-10 slide	9' long
CG-13	10 ft. to 14 ft. 3 in.	29 3/4"	1 electric	CG-13 slide	12' long
CG-18	9 ft. 2 in. to 18 ft.	29 3/4"	1 electric		16' long
CG-10-G	7 ft. to 11 ft. 3 in.	29 3/4"	3 gas	CG-10 slide	11' long



MODEL CG



PULL CHAIN TO SWIVEL TOP



CG-10-G WITH GAS ENGINE



THE CG-18



CLOSE-UP OF DISC



Hy-cycle  
Vibrator



Roto-Trowel



Vibrator



Grinder



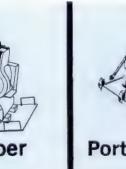
Vibrating  
Screeed



Baby-Brute  
Vibrator



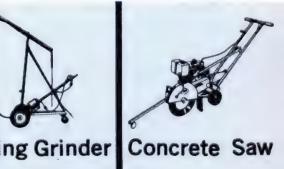
Tamper



Porto-Screed



Ceiling Grinder

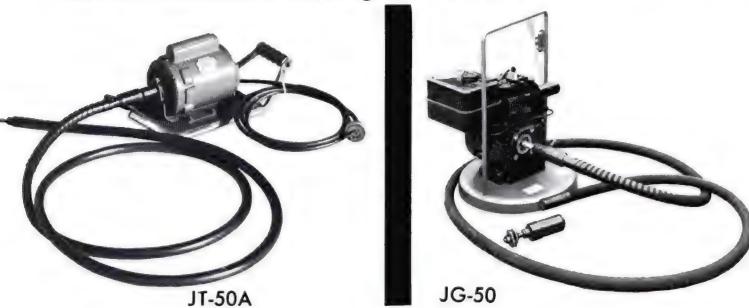


Concrete Saw



# CONCRETE GRINDERS

First in Flexible Shafting Since 1875



## JT-50A GRINDER

Model No.	HP	Motor	Net Weight	Flexible Shaft
JT-50A-8	3/4	totally enclosed	63 lbs.	8' long
JT-50A-12	3/4	totally enclosed	68 lbs.	12' long

## JG-50 GRINDER

Model No.	HP		Net Weight	Flexible Shaft
JG-50-8	3		81 lbs.	8' long
JG-50-12	3		86 lbs.	12' long

NOTE: the JT-50A machine has a Model 50 tool shaft.

Important: Use 3 wire extension cord; 1 wire for ground. Minimum size: Any length up to 150'—use No. 14 wire.

Optional—Female receptacle to fit 3-prong twist-lock plug available.



**SCALER**—For scaling off loose concrete; scaling paint off concrete, brick, or metal surfaces. Attaches directly to 50 tool shaft on JT-50 machine.



**HANDPIECE**—Furnished with wheel arbor. (1/2"–20' Female threads. Male threads on wheel arbor 1/2"–20)



**Model M850**, heavy duty, fits No. 50 tool shaft. Takes accessories with 1/2" threaded shank.



**WET ANGLEHEAD** (5/8"–11 Male thread) speed ratio 10:1, standard.

**Model W2-50** fits No. 50 tool shaft.



**WIRE CUP BRUSH** (5/8"–11 Female thread) for cleaning and paint removing.

No. 10038-1 (4" dia.)  
No. 10038-4 (5" dia.)  
No. 10038-2 (6" dia.) when used with handpiece, use adapter No. 6123-1.



**STOW-CUT DISC**—light-weight and flexible, designed for extra-long wear. Requires adapter No. 7629 shown below. Disc No. 7628-1 (7" dia.) Disc No. 7628-2 (9" dia.)



**DISC ADAPTER WITH PAD** (5/8"–11 thread) for discs shown.

Stowflex adapter No.

7600-1 (7" and 9" dia.);

Stow-Cut adapter No.

7629-1 (7" dia.); Stow-

Cut adapter No. 7629-2 (9" dia.). 7600-2 nut only for adapter.



**STOWFLEX ABRASIVE DISC**—very light-weight, flexible and easy-to-handle. Requires adapter No. 7600-1.

Disc No. 7599-1 (7" dia.); Disc No. 7599-2 (9" dia.)



**ABRASIVE CUP WHEEL** (5/8"–11 Female thread) excellent for wet rubbing, used with handpiece or anglehead. When used with handpiece, use adapter No. 6123-1.  
No. 10136-1 (4" dia.)  
No. 10136-2 (6" dia.) Do not operate at speed above that shown on label.



**SPEED-CUT WHEEL** (5/8"–11 Female thread) excellent for wet rubbing or dry grinding, used with handpiece or anglehead. 94% more useable material than standard cup wheel. When used with handpiece, use adapter No. 6123-1.  
No. 11355-1 (6" diameter x 2 3/8" thick). Do not operate at speed above that shown on label.



**TAPERED SPEED-CUT WHEEL** (5/8"–11 Female thread) excellent for wet rubbing or dry grinding, used with handpiece or anglehead. When used with handpiece, use adapter No. 6123-1.  
No. 11917-14 (6"–4 3/4" x 2 1/4" thick). Do not operate at speed above that shown on label.



**WHEEL GUARDS**—Recommended for above cupwheels—No. 12980-1 fits straight sided 6" CUPWHEEL; No. 12980-2 fits straight sided 4" CUPWHEEL; No. 12980-3 fits tapered 6"–4 3/4" CUPWHEEL.



**STOW FLEX-LUBE** No. 7093-1 special compound for lubricating all flexible shafts (1 lb. can).



**STOW ANGLE-LUBE** No. 11896-1 special compound for lubricating angleheads.



**STOW LIQUID CORE LUBRICANT** No. 11691-1 special liquid flexible shaft lubricant sprayed on from a pressurized can (1 pt. can).

(NOTE: FOR INFORMATION ON HOW TO GRIND CONCRETE SEE PAGE 12 OR ASK FOR BUL. 651)

## JT-50A

The Stow JT-50A flexible shaft grinder provides an efficient, rugged tool for removing rough spots from dry concrete walls, ceilings and floors; or for rubbing to provide a very smooth finish to green concrete. A variety of speed ratios and right angleheads are provided for either wet or dry grinding. Wet angleheads are equipped with an attachment so that water can be run through the center of the grinding wheel on to the concrete. A pressure tank can be used for the water supply. Cup brushes or sectional knot brushes can be used on this machine for cleaning equipment, removing paint, etc. The JT-50A is equipped with Model 50 Tool Shaft—8' or 12' long. Takes all accessories shown below. 3/4 HP totally enclosed ball bearing motor, 3450 RPM. Furnished with 3-prong twist-lock plug. Available as optional with 1725 RPM Motor.

The price of this machine does not include a handpiece or anglehead. Has CSA approval

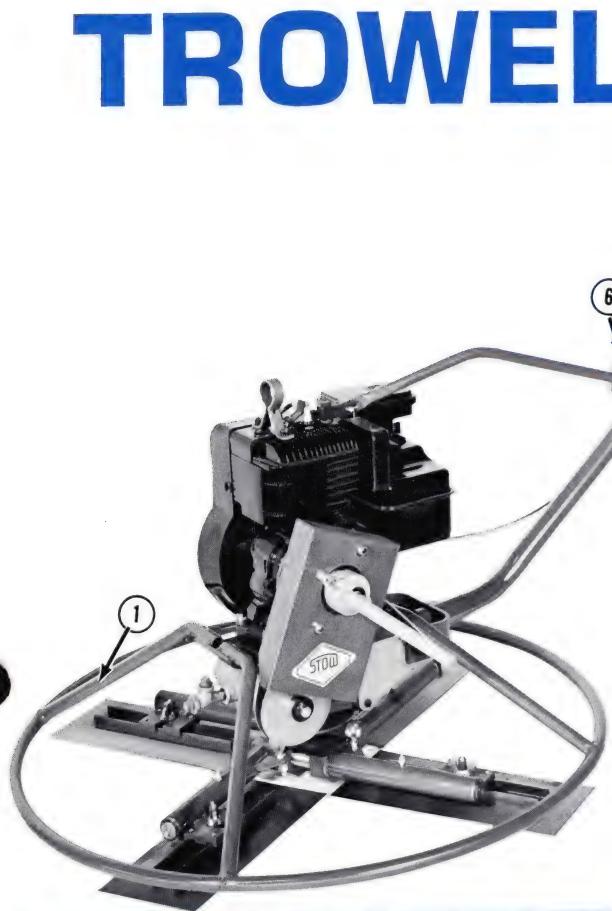
## JG-50

Model JG-50 Grinder has a 3 HP 4-cycle, air-cooled gas engine operating at 3600 RPM. It is ideal for wet grinding concrete walls. It has a Stow 50 tool shaft either 8 or 12 feet long, convenient handle, and is extremely lightweight and easy to handle. For handpieces, angleheads and proper accessories, see below.

The price of this machine does not include a handpiece or anglehead.

For Safety and Dependability Specify

# STOW ROTO-TROWELS



**G34-4J ROTO-TROWEL**  
Illustrated

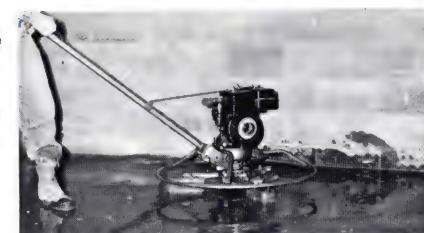
Stow Roto-Trowels  
Available in sizes from  
29" to 46" (see next page  
for all sizes).

**All STOW Roto-Trowels Have:**

1. Sturdy stationary guard ring does not rotate. Permits close-to-wall work. Prevents accidents.
2. Dead-Man Control stops trowel blades the instant the operator lets go of the lever. Leaves engine running. Prevents accidents. Allows engine to be started up at any throttle setting.
3. Pitch Control provides exact adjustment of trowel pitch while machine is in motion.
4. Plastic Grips on wide handle for greater ease of control.
5. Conveniently located Throttle Control.
6. Handle Adjustable to right height for operator. Can be raised vertically for storage and transit.
7. Locking Handle



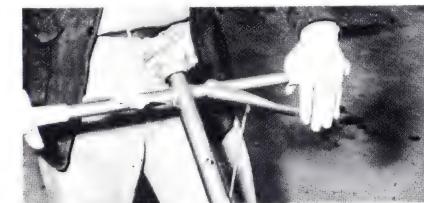
**G-29 Roto-Trowel**, putting a smooth finish on floor in industrial plant.



**G34C Roto-Trowel**, with grinding blocks attached, puts extra-fine finish on slab.



**G46C Roto-Trowel** finishing large floor area in industrial plant.



**This Dead-Man Control** on the wide cross-bar of the handle immediately stops the machine, but not the engine, when it is released.



**The Lifting Hook**, shown here on the 34-inch Roto-Trowel, makes it easier to lift the trowel to higher levels.



**G-29 Roto-Trowel** weighs only 70 lbs. Goes easily through doorways, can also be carried up and down steps.

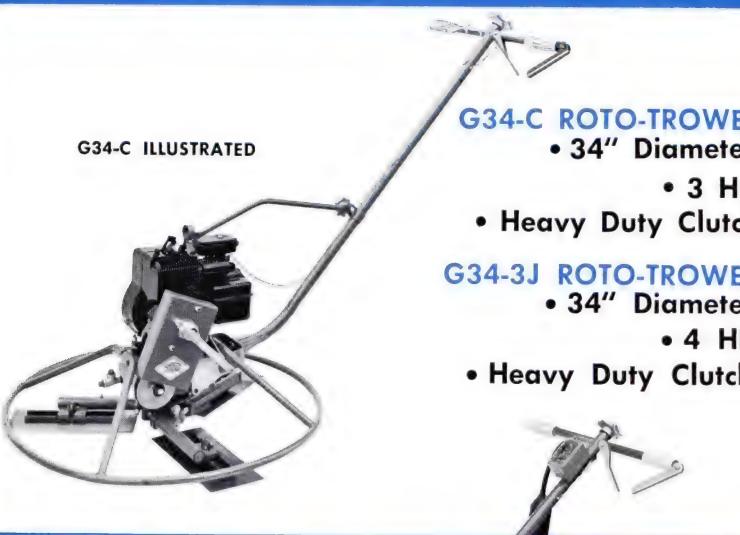
# ROTO-TROWELS



**G29F ROTO-TROWEL**  
 • 29" Diameter  
 • 3 HP

**G29F ROTO-TROWEL**—An extremely lightweight machine measuring only 29" in diameter. Will fit through doorways and can be carried by one man. Ideal for small jobs such as finishing doorways. The G-29 trowel features combination float and finish blades that are reversible for double life, stationary guard ring, dead-man clutch control, pitch control, and adjustable handle. Standard equipment includes 3 combination float and finish blades. (8" x 12"). Price includes one set of combination blades. Optional finish blades available.

The new G-29 now includes the same heavy-duty sliding-sheave type clutch as the larger Stow Roto-Trowels.



**G34-C ROTO-TROWEL**  
 • 34" Diameter  
 • 3 HP  
 • Heavy Duty Clutch

**G34-3J ROTO-TROWEL**  
 • 34" Diameter  
 • 4 HP  
 • Heavy Duty Clutch

**G34-C ROTO TROWELS**—The **G34-C** is an all purpose 34" lightweight machine that does an excellent job of floating and finishing concrete. The dead-man control, including a heavy-duty sliding sheave type clutch, insures safety and allows starting the engine up at any throttle setting, even full throttle. This sliding-sheave type clutch gives a very smooth start and it also eliminates any problem of belt stretching since the clutch engages by tightening the belt. Other G34-C features include stationary guard ring, lifting hook, pitch control and an adjustable handle. Both floating and finishing blades are reversible for double life, and can be quickly changed by loosening wing nuts. Blades can be adjusted individually if necessary. Finish blades are of chrome-vanadium steel. Grinding blocks are available for attaching in place of blades. Standard equipment includes 3 float blades (10" x 14"), and 3 finish blades (6" x 14"). Price includes one set of finish and one set of float blades.. Optional combination blades available. **G34-3J** is the same as the G34-C except with a 4 HP engine.



**E-34 ROTO-TROWEL**  
 • 34" Diameter  
 • 2 HP Electric

**E-34 ROTO-TROWEL**—Similar to the G34-C trowel except with a totally enclosed fan-cooled 2 HP motor. Ideal for indoor operation where gas fumes may be objectionable. Motor available in either 115/230 volts, 60 or 50 cycle single phase; or in 220/440 volts, 60 or 50 cycle three phase. Standard equipment includes 3 float blades (10" x 14") and 3 finish blades (6" x 14"). Price includes one set of finish blades and one set of float blades. Optional combination blades available.

**Important:** If additional extensions are required, use the following: 3-wire extension cord — 1-wire for ground. Minimum sizes are: 30' — No. 12 wire 60' — No. 10 wire 100' — No. 8 wire.

**G34-4J ROTO-TROWEL**  
 • 34" Diameter  
 • 4 HP  
 • Heavy -Duty Clutch  
 • 4 Blades



**G34-4J ROTO-TROWEL**—This all-purpose 4-bladed 34" machine is the finest machine of its size in the world. With 4 blades, it trowels  $\frac{1}{3}$  more than a 3-bladed machine in the same time. Four blades will also produce a flatter surface than a 3-bladed machine. The G34-4J features the heavy-duty sheave-type clutch which gives a much smoother start than the standard clutch. Also, this clutch practically eliminates any problem of belt stretching since the clutch engages by tightening the belt. The dead-man control on the G34-4J insures safety and allows starting the engine up at full throttle. Other features include stationary guard ring, lifting hook, pitch control on adjustable handle. Both floating and finishing blades are reversible for double life and can be quickly changed by loosening wing nuts. Blades can be adjusted individually if necessary. Standard equipment includes: 4 float blades (8" x 14") and 4 finish blades (6" x 14"). Grinding blocks are available for attaching in place of blades. Price includes one set of finish and one set of float blades. Optional combination blades available.

## G36-4CHD ROTO-TROWEL

- 36" Diameter
- 6 HP
- 4 Blades
- Heavy-Duty Clutch
- Optional Clip-on Blades



**G36-4CHD—ROTO-TROWEL** — The newest addition to the Stow line of Roto-Trowels. This 36" diameter unit has the same outstanding features as the other Stow Roto-Trowels, including the exclusive sliding sheave type clutch, which insures safety and allows the unit to be started at full throttle. Other features include a long adjustable handle, stationary guard ring, and a pitch-control mounted on the handle. In addition this trowel is offered with optional clip-on float blades and combination blades. The price includes one set of finish blades (6"x14") and one set of float blades (10"x14") which are reversible for double life.

## G42C1-3 ROTO-TROWEL

- 42" Diameter
- 6 HP
- 3 Blades



## G42C1-3 ROTO-TROWEL

The G42C1-3 has the same length blades (18") as used on the Stow 46" size machines below. This means that the G42C1-3 machine trowels 55% more area per revolution than Stow 34 inch size machines. Yet because it is 3-bladed, a lightweight but powerful 6 HP engine can be used which means getting on the job sooner. The G42C1-3 has a long adjustable handle for ease in handling. Also, a heavy-duty sliding-sheave type clutch which is operated by the Stow dead-man clutch control. Other features include: stationary guard ring and pitch control on handle. The blades are reversible for double life and can be adjusted individually if necessary. Standard equipment includes: 3 float blades (10" x 18") and finish blades (6" x 18"). Price includes one set of finish and one set of float blades. Grinding blocks are available for attaching in place of blades.

**G42-4 ROTO-TROWEL** — The G42-4 has 4 finish blades (6" x 14") and 4 float blades (10" x 14") and is furnished with a 6 HP engine.

G-46C  
illustrated

## G-46C ROTO-TROWEL

- 46" Diameter
- 7 HP
- 4 Blades

## G46D-3 ROTO-TROWEL

- 46" Diameter
- 6 HP
- 3 Blades

## G46D-4 ROTO-TROWEL

- 46" Diameter
- 6 HP
- 4 Blades

**G-46C ROTO-TROWEL** — This 46", 4-bladed machine trowels 11 square feet per revolution, nearly twice as much as the G-34, making it ideal for large floor areas. Because of special design features, this large trowel is extremely easy to maneuver. The Stow G-46C Roto-Trowel has all the features of the smaller machines plus a 7 HP engine that provides plenty of power. Standard equipment includes: 4 float blades (10" x 18") and 4 finish blades (6" x 18"). Blades are reversible for double life. Price includes one set of finish and one set of float blades. Optional combination blades available.

**G46D-3 & G46D-4 ROTO-TROWELS** — Similar to the G46C but has 6.0 HP engine, the same gear box as the 34 inch size machines, and an aluminum spider. On the G46D-4 this reduces the weight by 25% below G46C.

## SPECIFICATIONS FOR ROTO-TROWELS

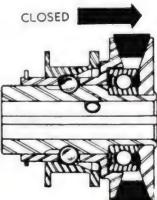
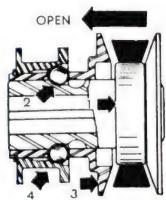
Model No.	Catalog No.	Trowel Dia.	Ring Dia.	Engine	Trowel Speed	No. of Blades	Float Blades	Finish Blades	Combination Blades	Area Finished Per Revolution	Operating Weight	Grinding Blocks
G29F	10607-501	29"	30"	Briggs & Stratton 3 HP	50 to 130 RPM	3		6" x 12" 14318-401	8" x 12" 14957-503	4.5 Sq. Ft.	70 lbs.	
G34-C	7415-502	34"	35"	Briggs & Stratton 3HP; 4HP on 3J	50 to 110 RPM	3	10" x 14"†	6" x 14"	8" x 14"	5.9 Sq. Ft.	122 lbs.	(set of 3)
G34-3J	13864-503						7394-402	7394-401	11686-503*		10585-503*	
E-34	7475-501	34"	35"	Fan-Cooled 2.0 HP	100 RPM	3	10" x 14"†	6" x 14"	8" x 14"	5.9 Sq. Ft.	130 lbs.	(set of 3)
							7394-402	7394-401	11686-503*		10585-503*	
G34-4J	13864-504	34"	35"	Briggs & Stratton 4HP	50 to 120 RPM	4	8" x 14"	6" x 14"	8" x 14"	5.9 Sq. Ft.	128 lbs.	(set of 4)
							10937-502	10937-501	11686-504*		10585-504*	
G36-4CHD	14792-614	36"	37"	Briggs & Stratton 6 HP	50 to 120 RPM	4	10" x 14"†	6" x 14"	8" x 14"	6 Sq. Ft.	150 lbs.	(set of 4)
							7394-504	10937-501	11686-504*		10585-504*	
G42C1-3	10789-503	42"	44.5"	Briggs & Stratton 6.0 HP	50 to 120 RPM	3	10" x 18"	6" x 18" 10270-302	8" x 18" 10270-301	9.4 Sq. Ft.	139 lbs.	(set of 3)
								11887-301*			10585-503*	
G42-4	10789-504	42"	44.5"	Briggs & Stratton 6.0 HP	50 to 120 RPM	4	10" x 14"†	6" x 14"		8.5 Sq. Ft.	150 lbs.	(set of 4)
							7394-504	10937-501			10585-504*	
G46C-4	10391-502	46"	48.5"	Wisconsin 7.0 HP	50 to 160 RPM	4	10" x 18"	6" x 18"	8" x 18"	11 Sq. Ft.	223 lbs.	
							11878-401	11877-401	11879-401*			
G46D-3	13777-503	46"	48.5"	Briggs & Stratton 6 HP	50 to 160 RPM	3	10" x 18"	6" x 18"	8" x 18"**	11 Sq. Ft.	160 lbs.	
							10937-504				168 lbs.	

\*Optional Accessories

†CLIP-ON FLOAT BLADES (10"x14") AVAILABLE AS OPTIONAL SET OF 3 (PART NO. 14801-353)

SET OF 4 (PART NO. 14801-354)

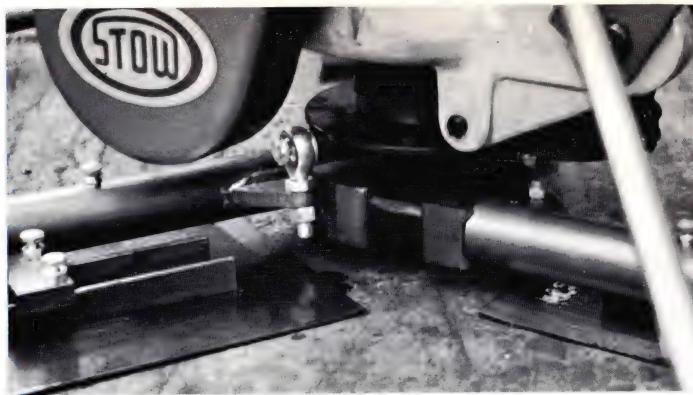
## HOW HEAVY-DUTY CLUTCH WORKS



When the clutch is disengaged, the sheaves of the pulley are open as shown. The belt rides slack on the outer race of a free running ball bearing.

To start trowel blades, the operator engages the clutch. The sliding sheave which is mounted on ball bearings is carried forward into the closed position. This forces the belt up off the bearing so that it grips the sidewalls of the pulley.

This smooth clutching eliminates grab, results in a slow, even start. With this clutch, belt life is increased since there are no belt stretching problems.



To stop the trowel, the operator lets go of the clutch control. Instantly, the belt pushes the sliding sheave back to the open position and rides free on the idler bearing.

Above is shown a close-up of the tilting plate and the solid connection between the arms and the tilting plate. This means that all blades are rotating in the same plane at all times. This results in the Roto-Trowel knocking off high spots and filling in low spots and also makes it easier to maneuver the machine on the job.

## BLADES AND OTHER ACCESSORIES



**8" x 12"**  
**COMBINATION BLADE**  
(3) G29F No. 14957-503



**6" x 14"**  
**FINISH BLADE**  
(3) E34, G34C, G34-3J  
**No. 7394-401**  
(4) G34-4C, G34-4CHD  
G34-4J, G36-4CHD,  
G42-4, No. 10937-501



**6" x 12"**  
**FINISH BLADE**  
(3) G29F No. 14318-401



**FLOAT BLADE**  
**10" x 14"**  
(3) E34, G34C, G34-3J  
**No. 7394-402**  
(4) G36-4CHD, G42-4  
**No. 7394-504**  
**8" x 14"**  
(4) G34-4C, G34-4J, G34-4CHD  
**No. 10937-502**

### OPTIONAL CLIP-ON FLOAT BLADE



fits right over regular finish blades. Can be put on or taken off in seconds. Clip-on blades fit G34C, G34-3J, G36-4CHD, and G42-4.



**8" x 14"**  
**COMBINATION BLADE**  
(3) E34, G34C, G34-3J  
**No. 11686-503**  
(4) G34-4C, G34-4CHD  
G34-4J, G36-4CHD  
**No. 11686-504**



**10" x 18"**  
**FLOAT BLADE**  
(4) G46C No. 11878-401  
G46D-4  
(3) G42C1-3 No. 10270-302  
G46D-3



**8" x 18"**  
**COMBINATION BLADE**  
(4) G46C No. 11879-401  
G46D-4  
(3) G42C1-3 G46D-3 No. 11887-301



**6" x 18"**  
**FINISH BLADE**  
(4) G46C No. 11877-401  
G46D-4  
(3) G42C1-3 No. 10270-301  
G46D-3



**GRINDING BLOCKS** for  
34" Trowels, can be  
attached in place of  
blades.  
**No. 10585-503 (set of 3)**  
**No. 10585-504 (set of 4)**



**STOW LUBE** special  
lubricant for gear box  
of Roto-Trowel.  
Summer Lube No. 7472-1  
for temperatures above  
50° F. (1 pint can)  
Winter Lube No. 7472-2  
for temperatures from  
50° F. to minus 20° F.  
(1 pint can)



Hy-cycle  
Vibrator



Roto-Trowel



Vibrator



Grinder



Vibrating  
Screed



Baby-Brute  
Vibrator



Tamper



Porto-Screed



Ceiling Grinder



Concrete Saw



# ALL STEEL DOUBLE FLANGE VIBRATING SCREEDS

Ideal for striking off concrete surfaces

Patent Pending

## The Stow steel screed has:

- Adjustable amplitude
- Adjustable crown on SASG
- Adjustable speed
- Adjustable length
- Winches

Note: Patent Pending

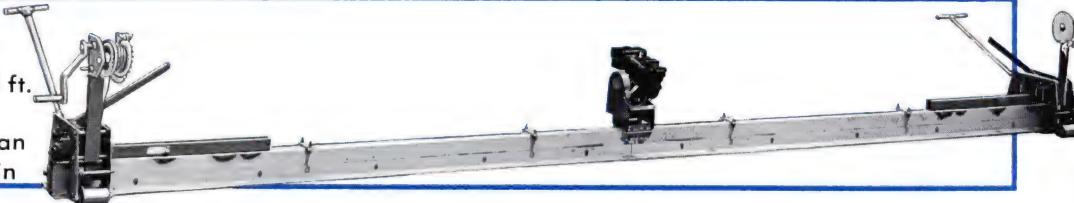
For additional information on "How to Strike Off Concrete by Vibration Screeding" see Bul. 613.

Screeeding concrete slabs allows a much stiffer and drier mix to be placed. This makes a much stronger concrete, and because such a stiff, dry mix is used, the concrete hardens more quickly. Roto-trowels can then be put on the job sooner for final finishing.

Stow screeds are especially recommended for bridge decks, airport aprons and runways, floors, roadways, etc. The Stow screed, which is pulled across the slab, strikes off a smooth surface that is true to grade. At the same time, it thoroughly vibrates the concrete, making a homogeneous slab. Handles even large jobs easily, quickly, economically; saves as much as 50 cents per cubic foot of concrete, and on many jobs has been known to cut production time in half.

## SSG SCREED

- 3 HP Gasoline engine
- All steel double flange beam
- Heavy duty lift-up rollers
- Maximum length 24 ft.
- Winches
- Crown can be built in

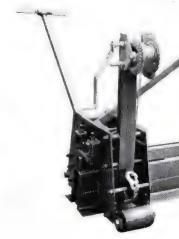


**SSG Screed**—This screed is ideal for striking off slabs of any length up to **24** feet. Consists of 3 HP gasoline-engine driven, adjustable amplitude screed power pak; two heavy-duty lift-up roller assemblies with 9:1 ratio winches; and a double flange, all-steel beam. The power pak on the SSG has an adjustable amplitude feature. This plus the throttle control makes it possible to get just the correct amount of vibration to suit the particular conditions of any job. The engine is mounted on 4 rubber vibration dampeners to absorb vibration, minimize wear and tear. The heavy-duty-roller assembly has rubber mounts to isolate the vibrations from the forms and the operator, and is mounted on track attached to top of beam. This track makes it possible to move the rollers back and forth on the beam easily to get an adjustment of up to 6 feet on the beam span. A lever on the roller assembly can be pulled to raise the beam up  $1\frac{1}{2}$  inches off the slab. Thus the screed can be rolled back for a second pass if desired. The 9:1 ratio winches bolted on each end of the screed make it a simple matter to advance the screed with just two men at a steady, even rate.

The beam is constructed of rectangular steel tubing with two 3-inch wide angle-iron flanges mounted on leading and trailing edges. With two flanges it is like making two passes at once. These flanges can be adjusted up or down very simply at various points along the length of the beam to maintain the correct crown or flatness of the screeding surface. Beams can be fabricated to whatever length required up to **24** ft.; just specify span of slab. Also, any crown desired can be built into the beam. Special underslung construction is also available as optional. For lengths over 24 ft. use 2 power paks.



Adjustable amplitude power pak bolted to beam.



Rollers mounted on track attached to top of beam. Simple to adjust for slab width. 9:1 ratio winches mounted on heavy-duty roller assembly.

## SASG SCREED

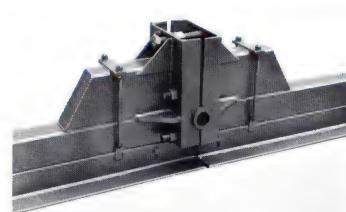
- Two 3 HP gasoline engines
- All-steel double flange beam
- Heavy-duty lift-up rollers
- Lengths 20 to 50 ft.
- Maximum crown adjustment 3" for 30 ft. length.
- Adjustable hinge assembly
- Winches



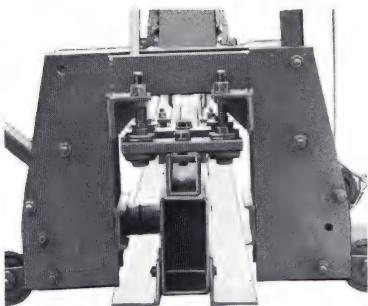
**SASG Screed**—This screed is designed to strike off slabs which are greater than 30 feet in length or where an adjustment in the amount of crown is desired. Similar to the SSG screed except with two 3 HP adjustable amplitude screed "power paks," instead of one and with an adjustable hinge assembly in the center making it possible to get an adjustment of as much as a 3" crown at the center of the beam. Beams fabricated to whatever length required from 20 to 50 feet; just specify span of slab. Special crowns can be built into the beam. Special underslung construction is also available as optional.



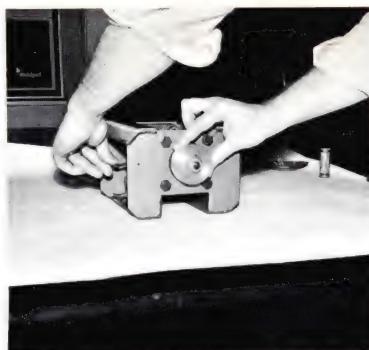
Note how 3-inch wide flanges are raised and lowered by adjusting nuts to form crown.



By loosening the bolts, jacking up the center and retightening the bolts around the pivot tube, any slope (or crown) up to 3" at center can be obtained.



Close-up of end of screed beam showing how the separate angle irons are bolted to the beam providing two 3-inch wide screeding surfaces. Slots in angle iron allow the flanges to be raised or lowered with respect to the beam to obtain crown.



**How to adjust amplitude**  
The amplitude of vibration (or wallop) can be adjusted (as shown at left) on the job to suit the particular job. By turning the eccentric on its axis, using dial settings marked on the pulley, and then locking it in position with set screws, any desired degree of amplitude can be obtained. (Note — adjustment should be made from left side when facing pulley.) See sketch lower left.

## SPECIAL STEEL BEAMS CUSTOM MADE

For bridge decks and other special applications, special screed beams, including underslung beams, can be made. Here is an example:

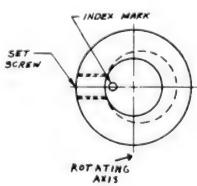
This bridge contractor wanted to locate his rails 14" above and 18" beyond the end of the slab; so a special underslung section was made for each end. Screed beams can be made for special conditions.



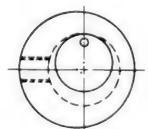
### How to adjust amplitude

Eccentric weight in 3 different positions with respect to rotating axis.

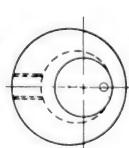
Low Amplitude  
Index at Screw



Medium Amplitude  
Index 90° from Screw



High Amplitude  
Index 180° from Screw



When ordering underslung SSG or SASG beams give Stow the dimensions "A" through "F" below.

Fig. 1. Slope in 2 directions

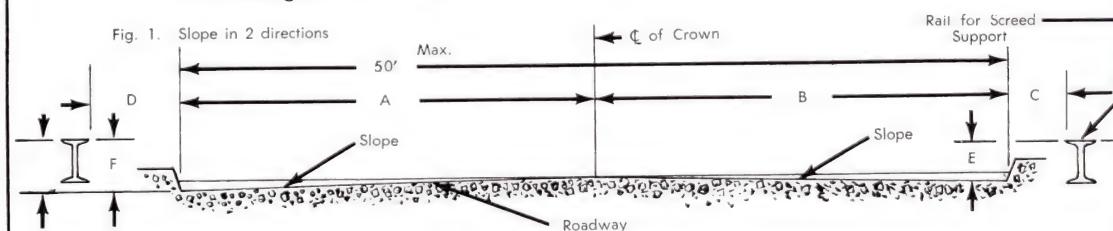


Fig. 2. Slope in one direction but with changing grade

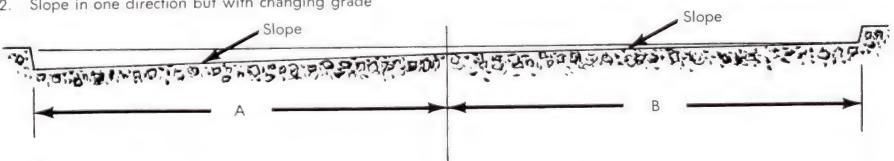
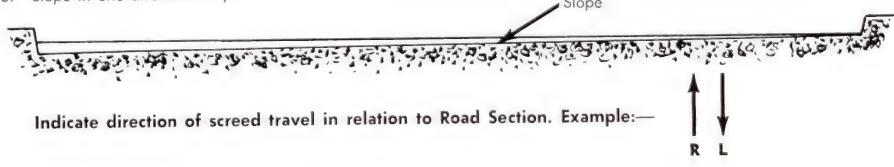
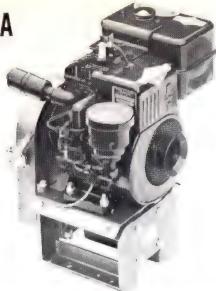


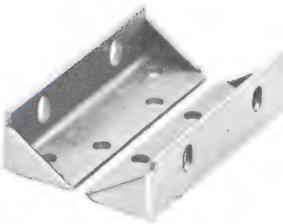
Fig. 3. Slope in one direction only



Indicate direction of screed travel in relation to Road Section. Example:



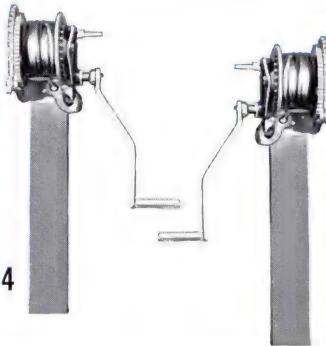
1



2



3



4

## JSA SCREED PACKAGE ASSEMBLY FOR THE CONTRACTOR WHO BUILDS HIS OWN WOOD BEAM\*

The adjustable amplitude Screed Package, less the beam, is available for the contractor who desires to build his own wood beam. Thus, he saves the shipping expense on the beam. This screed package consists of a 3 HP gasoline driven adjustable amplitude vibrating unit (1), brackets for mounting vibrating unit to beam (2), a pair of end rollers, handles and all necessary bolts (3), except screed beam bolts, and a pair of 9:1 ratio winches with brackets (4).

Available as optional with 1 HP or 2 HP electric motor. Use 2 HP for beams over 8 ft.

\*Write for Parts Book 614 on how to build your own beam. Note, it is not recommended that you build your own beam longer than 30 ft.

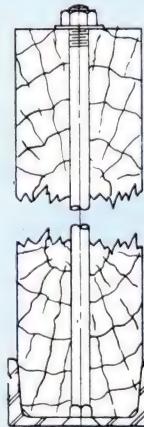
For detailed information on "How to Strike Off Concrete by Vibration Screeding" see Bul. 613.

## OPTIONAL SCREED ACCESSORIES



**FLANGED ROLLERS**—Can be substituted in place of plain rollers to help keep the screed on the rails. "A" is used on the rear of the end roller assembly and "B" on the front. A—Rear Flanged Rollers No. 8404-402 (pair)  
B—Front Flanged Tilting Rollers No. 10682-502 (pair)

**SCRAPER ASSEMBLY**—Fits on front of end roller assembly to push wet concrete off rails. No. 11066-501 (pair) for JSA screed package. No. 11956-501 (pair) for SSG or SASG screed.



Parts for Building Own Wooden Prestressed Screed Beam:  
Bolts—for 3" x 10" beams  
No. 7611-10  
for 3" x 12" beams No. 7611-12  
Nuts—8233-6  
Washers—8602-6  
Channel—3" x 4.1 lb.

### Model SLE —

1 HP Electric Motor  
Optional with  
2 HP Motor

### Model SLG —

3 HP Gas Engine

- **LIKE MAKING 2 PASSES AT ONCE**
- **IDEAL FOR SHORT SPANS, PRESTRESSED SLABS**
- **HAS CSA APPROVAL**
- **LIGHTWEIGHT**
- **ALL STEEL**
- **ADJUSTABLE AMPLITUDE**

Maximum Length SLE — 15 ft.

(For length over 8 ft. use 2 HP motor)

Maximum length SLG — 12 ft.

**IMPORTANT** — Use 3-wire extension cord; 1 wire for ground; minimum size — any length up to 150' for 1 hp No. 12 wire; for 2 hp No. 10 wire.

The Stow Adjustable Amplitude Double-Flange Screed is recommended for finishing short spans such as prestressed slabs and sidewalks. The first 3-inch steel flange strikes off a smooth surface that is true to grade, while the second flange gives the concrete a final finish. At the same time, the wide surface of the double-flange screed thoroughly vibrates the mixture to make a strong homogeneous concrete.

The Stow Double-Flange Screed includes a Power Pak with built-in vibrator mounted on brackets which are bolted to the beam. The vibration is transmitted equally, directly to the concrete, through the two 3-inch steel flanges.

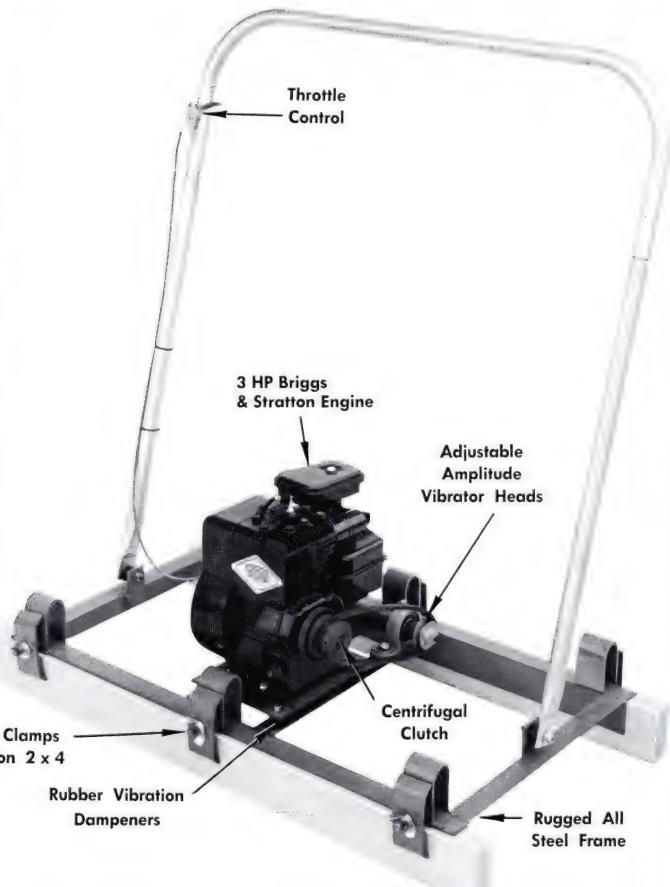




# NEW 3 HP PORTO-SCREED

## ONE-MAN ADJUSTABLE AMPLITUDE TWIN-BEAM VIBRATING SCREED

### STRIKES OFF CONCRETE SLABS



- IDEAL FOR SIDEWALKS, DRIVEWAYS, FLOORS, PATIOS
- TWIN-BEAM . . . THE ASSEMBLY CLAMPS ON TO TWO 2 x 4'S
- LIKE MAKING TWO PASSES AT ONCE
- STRIKES OFF AND VIBRATES AT SAME TIME
- LIGHT IN WEIGHT . . . EASILY PORTABLE
- ADJUSTABLE AMPLITUDE



The Stow Porto-Screeds now makes the vibration screeding of short spans a one-man job. Considerably lower in cost than larger Stow screeds, the Stow Model PS assembly is designed for fastening to any length of 2 x 4's up to 14 ft. (for longer length beams, 2 x 6's are recommended).

After the concrete mix is roughly shovel-leveled to the approximate height of the forms, the Stow Porto-Screeds is simply pulled down the length of the slab by one man. There is no sawing action, just a steady 4300 V.P.M. vibrating action that brings the fines to the surface. The speed of the vibrations and the amplitude with which they're delivered results in an excellent job of striking off and vibrating the concrete slab. The same adjustable amplitude eccentric, as used on larger Stow screeds, makes it possible to get just the right amount of vibration to suit the particular conditions of the job. The amplitude of the vibration (or wallop) can be changed to fit the job requirement simply by turning the

eccentric on its axis and locking it in place. By putting two Porto-Screeds on one pair of beams, long screeds have been made successfully up to 32 feet long.

Power is provided by a 3 HP engine on rubber vibration dampening mounts. The specially designed handle can be adjusted to suit the height of the operator.

Rugged all-steel framework includes clamps for attaching to 2 x 4's. With a total weight of only 75 lbs., it can be easily carried to the job by one man. Available as optional with 1 HP electric motor. Now, for even small jobs, the use of a vibrating screed makes it possible to pour and strike off a much stiffer mix, resulting in a stronger slab. For information on Stow's larger size screeds with rollers and Stow's double-flange screed, see previous page.

Optional — Spacers are available that clamp on the ends of long 2 x 4's to hold them together.

For more information on the Porto-Screeds, ask for Bul. 6412.



22 Hy-cycle  
Vibrator



Roto-Trowel



Vibrator



Grinder



Vibrating  
Screed



Baby-Brute  
Vibrator



Tamper



Porto-Screeds



Ceiling Grinder



Concrete Saw



# NEW T-51A TAMPER

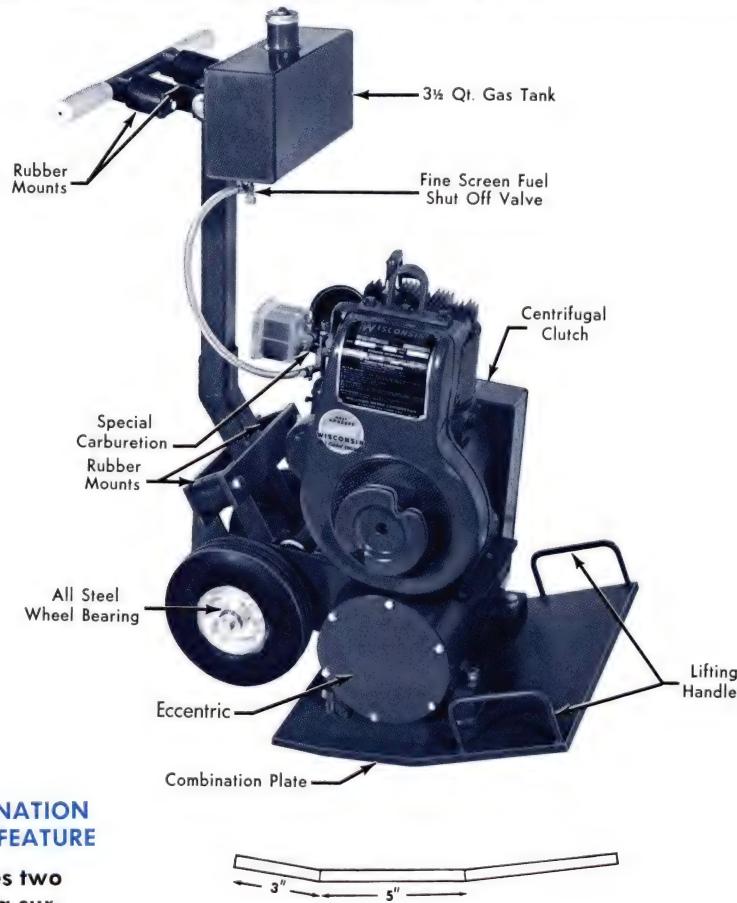
## — for more efficient



## Vibratory Compaction

of GRANULAR SOIL in TRENCHING, BACKFILL, SUB-BASES, FOUNDATIONS and APPROACHES and for BITUMINOUS SURFACING . . . compacting black-topped surfaces and pavement patches.

Probably the most modern, most efficient compactor on the market today, the NEW STOW T-51A TAMPER combines vibration with impact to insure that all material is properly compacted, does the job more efficiently and with less wear and tear. Here's why!



### NEW COMBINATION PLATE FEATURE

Provides two tamping surfaces. 3" surface is ideal for most granular soils. 5" surface works perfectly on sand and similar soils.

The Stow T-51A TAMPER has the gas tank mounted on the handle. This completely isolates the tank from vibration, and allows the use of gravity feed for the fuel thus eliminating need for a fuel pump. The T-51A also has an exclusive combination plate providing the operator with a choice of a 3" wide surface or a 5" wide surface to suit varying soil conditions.

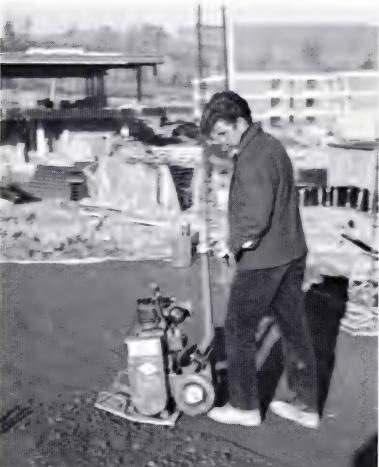
Self-propelled, too! The STOW T-51A TAMPER moves itself along, at up to 75 feet per minute while it tamps up to 6720 sq. ft. per hour. Each stroke delivers 3500 lbs. of tamping impact . . . delivers it 2800 times per minute.

Easy to operate. No special training required.

# look at these features on the new STOW T-51A TAMPER



Call or see your local distributor about this newest addition to the STOW line of construction equipment . . . STOW T-51A TAMPER, one of the most useful, most versatile construction machines you can buy.



STOW T-51A TAMPER SPECIFICATIONS			
MODEL	T-51A	GAS TANK	3 1/2 QT. CAPACITY
VIBRATIONS PER MIN.	2800	PLATE SIZE	18" (3" and 5" tamping surface)
IMPACT PER BLOW	3500 LBS.	OPTIONAL ACCESSORIES	12" SHOES, (3" and 5" tamping surface) 24" SHOES, (3" and 5" tamping surface) 18" WATER PLATE 24" WATER PLATE
TRAVEL SPEED PER. MIN. DEPENDING ON THE TYPE SOIL & LIFT.	UP TO 75 FT. PER MIN., 6720 SQ. FT. PER HR.	NET WEIGHT	270 LBS.
ENGINE & HP RATING	6HP WISCONSIN ACN With Special Carburetion	SHIPPING WEIGHT	320 LBS.



#### HEIGHT OF TAMPER

Bottom of plate to top of handle 41"

Bottom of plate to spark plug 26 1/2"

#### STOW MANUFACTURING CO.

Binghamton, N.Y.

- **Specially Designed Gas Tank;** mounted on handle isolating it from vibration.
- **Easy-Start Engine** by Wisconsin
- **Special Carburetor;** factory set for the best idling and maximum speed (no chance for operator to run Tamper too fast or too slow).
- **Specially Designed 18" Combination Tamping Plate** standard, has 3" and 5" surface; 12" and 24" shoes available, also 18" and 24" water plates
- **Centrifugal Clutch** Easier to start engine. Engine can be idled when not in use
- **Torsion Bar Handle** isolates vibration from operator
- **Air Cleaner** prevents dust damage to engine
- **Puncture-Proof, Wide-Tread Tires**
- **Large Diameter Wheels** for easy movement on the job



Hy-cycle  
Vibrator



Roto-Trowel



Vibrator



Grinder



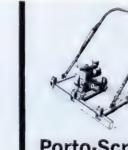
Vibrating  
Screeed



Baby-Brute  
Vibrator



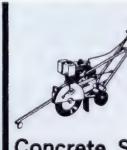
Tamper



Porto-Screeed



Ceiling Grinder



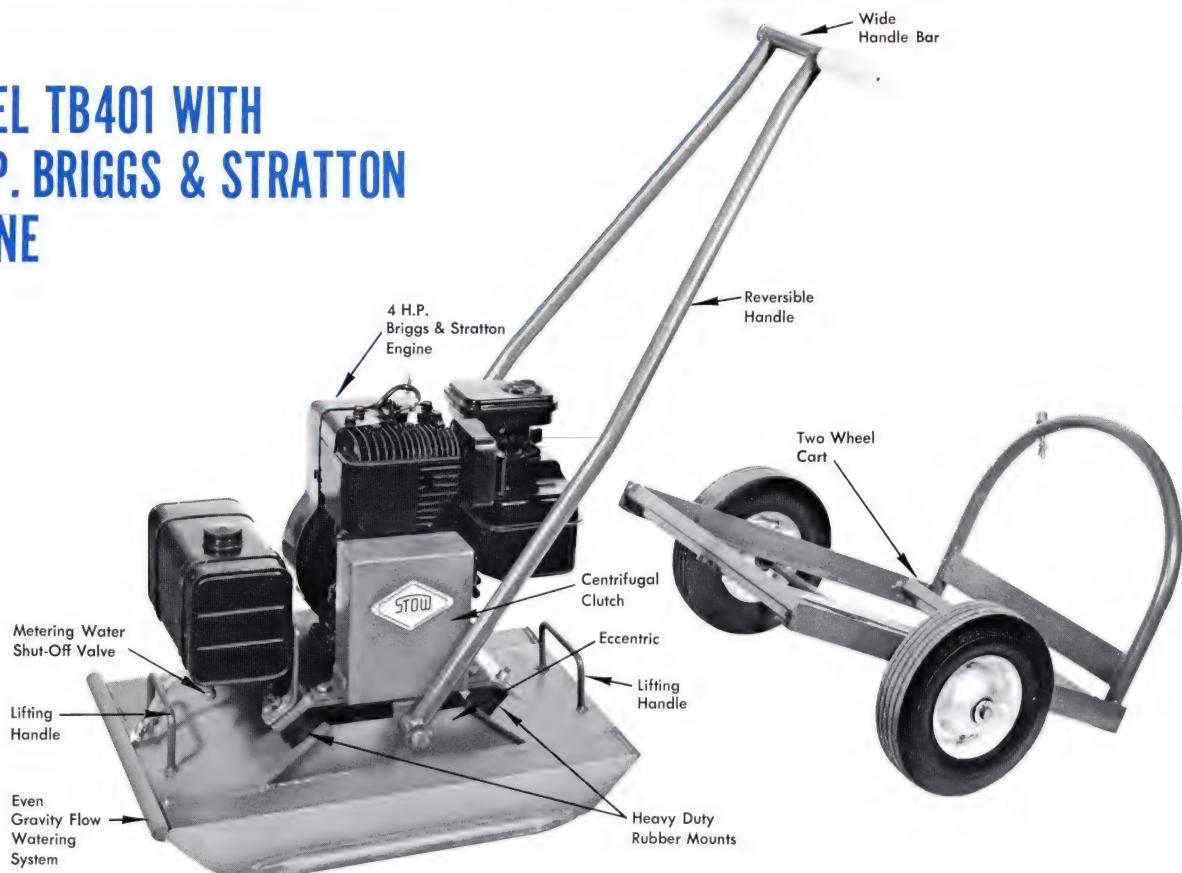
Concrete Saw



# THE NEW STOW VIBRATING PAN-TYPE TAMPER

MEANS FAST COMPACTION OF ASPHALT OR GRANULAR SOILS.

## MODEL TB401 WITH 4 H.P. BRIGGS & STRATTON ENGINE

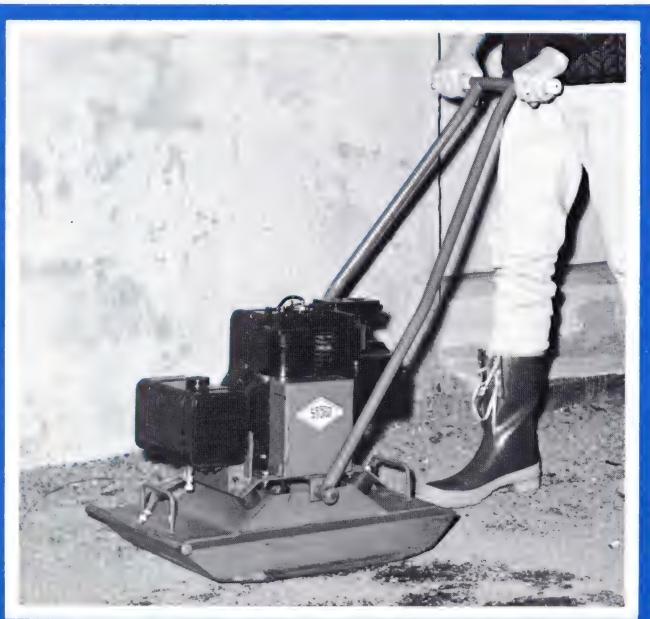


The new Stow Pan-Type Tamper is available in two models: model TB401 (shown above) with a 4 H.P. Briggs and Stratton Engine and model TK401 (shown on reverse side) with a Kohler 4 H.P. Engine.

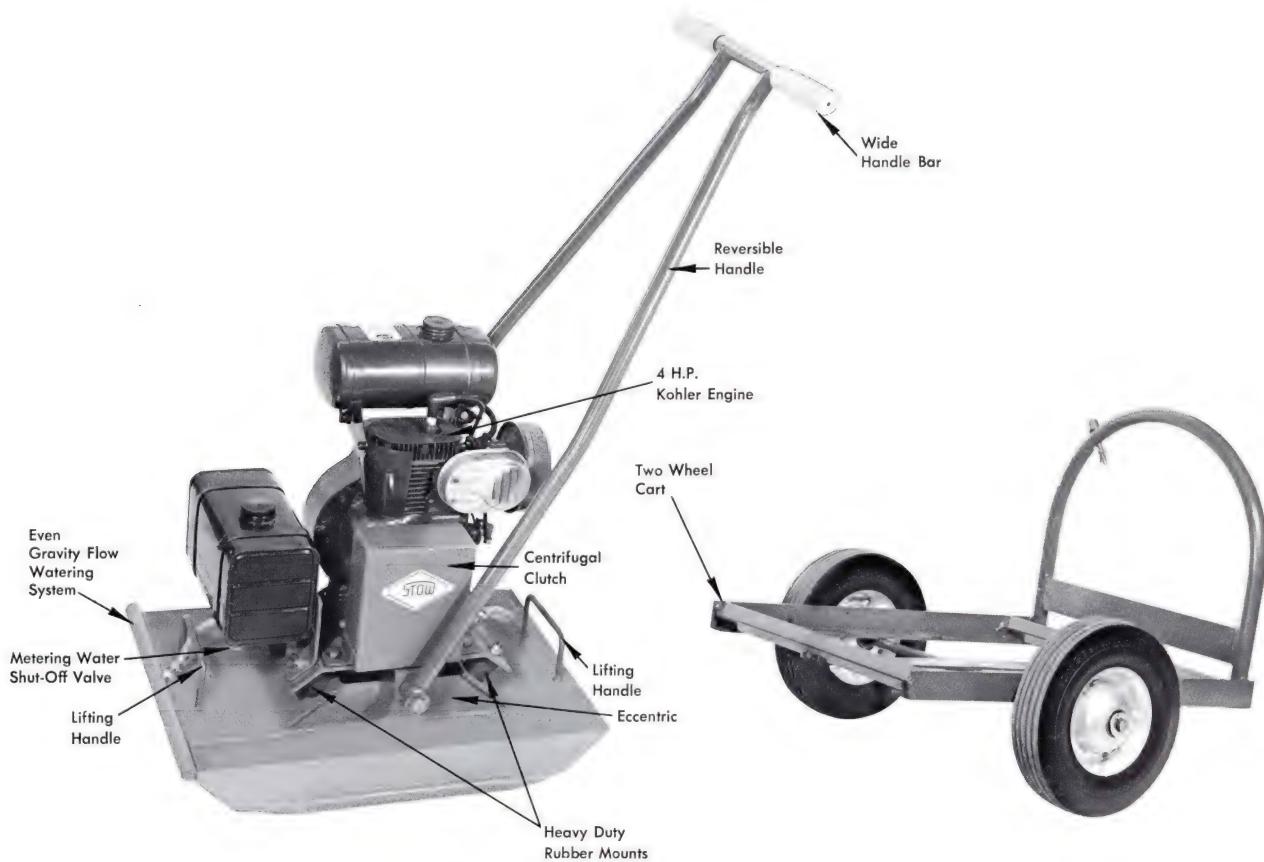
The new 4 H.P. T401 Tampers provide fast and efficient compaction of asphalt, granular soils and most non-cohesive soils. The T401's produce 1,800 lbs. of impact at a frequency of 4,800 times a minute and travel up to 50 ft. per minute (4,500 sq. ft. per hour).

The T401's are ideal for compacting asphalt in confined or small areas such as highway patches, sidewalks, playgrounds and parking lots. These tampers are also perfect for compaction of soils in lifts up to 12 in. thick, in extra large or small areas. T401's come standard with a large capacity water tank, uniform gravity feed and a metered water-shut-off valve.

The two wheel cart furnished as standard equipment with each tamper, along with the two base mounted carrying handles, makes the T401's extremely portable on the job.



# MODEL TK401 WITH 4 H.P. KOHLER ENGINE



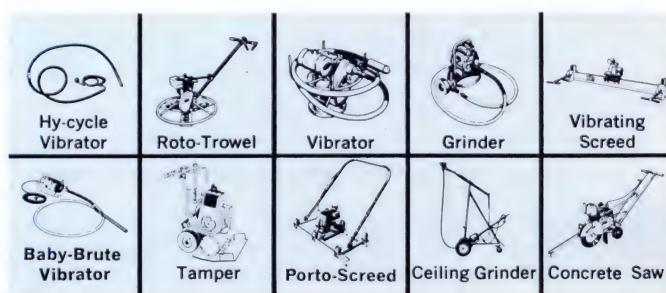
## STOW PAN-TYPE TAMPER SPECIFICATIONS

MODEL	TK401	ENGINE	4 H.P. KOHLER
MODEL	TB401	ENGINE	4 H.P. BRIGGS & STRATTON
VIBRATIONS PER MINUTE	4,800	PLATE SIZE	OVER ALL WIDTH 17½ OVER ALL LENGTH 24½
IMPACT PER BLOW	1,800 LBS.	TRAVEL SPEED	TO 50 FEET PER MIN. OVER 4,500 SQ. FT. PER HR.
NET WEIGHT TB401	150 LBS. LESS CART	NET WEIGHT TK401	160 LBS. LESS CART

### FEATURES OF THE T401

- Large capacity water tank — furnished as standard
- Metered water-shut-off valve — furnished as standard
- Standard with a 2-wheel cart
- Reversible handle
- Centrifugal clutch — for easier starting
- Available in two models
- Gravity fed water system
- Molding edges

Call or see your local distributor about this newest addition to the Stow line of concrete equipment.

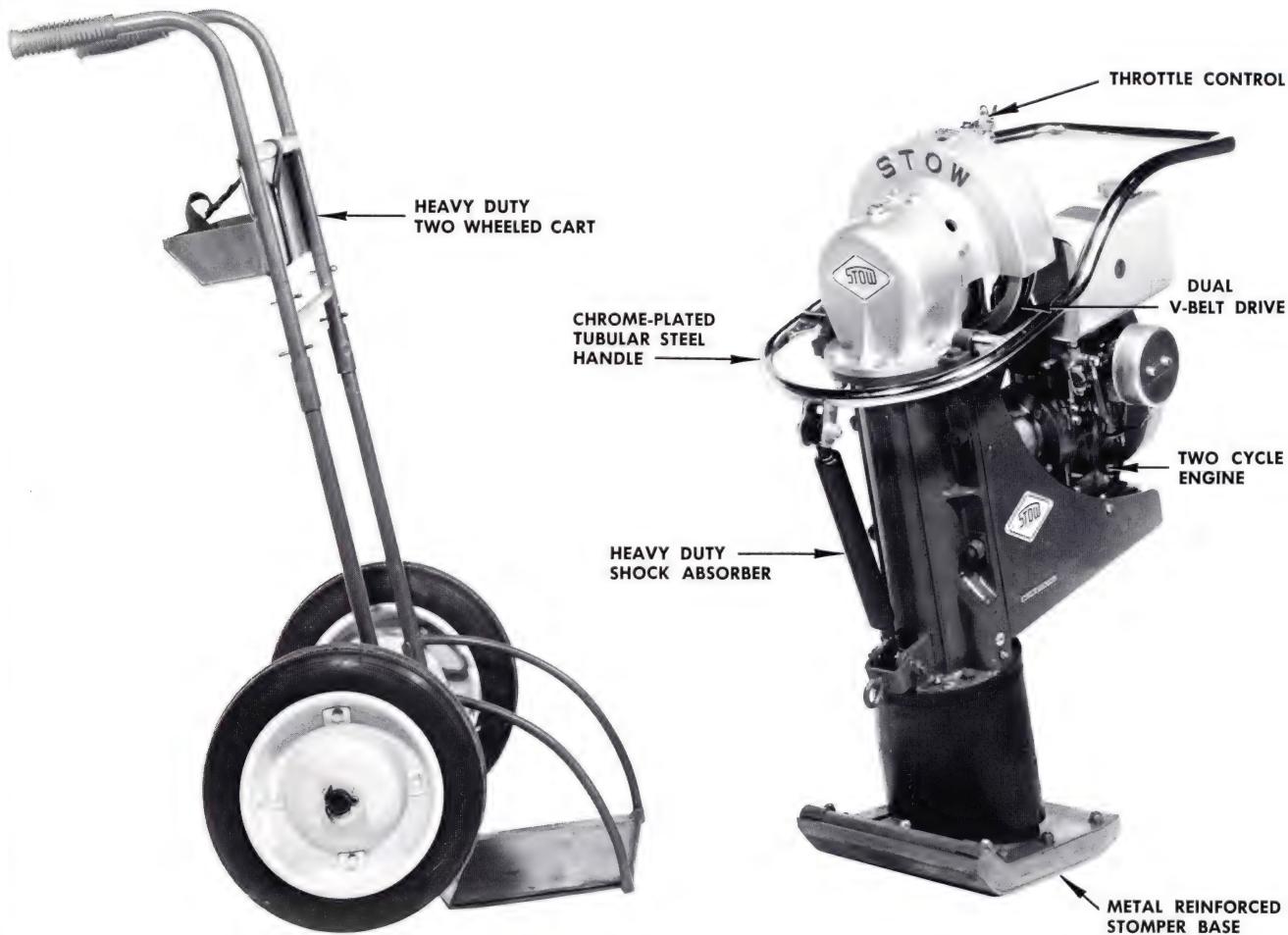




# THE NEW STOW STOMPER

## MODEL TR671

portable, efficient,  
low cost rammer



The new Stow Stomper is designed to provide efficient compaction at low cost and to be operated and transported by one man.

The Stomper is ideal for compaction of soils (even clay) in hard-to-get-at places such as potholes, pipelines, trench bottoms, back-filled areas, next to abutments and almost any other spot where other types of compactors won't work.

The Stomper is engineered to work day after day without breakdown. A two-wheeled cart is furnished as standard equipment for easy movement on the job. A complete tool kit comes with the Stomper at no extra cost.



## THE STOW STOMPER IS A VIBRATORY RAMMER

The Stow Stomper is designed and manufactured to be a mobile and versatile compaction unit. It will give high performance in a variety of situations—such as, construction of gravel foundations for highways and buildings; consolidation of all types of soils (even clay); in the laying of cable and pipes, and the compaction of earth in levees and reservoirs.

This machine is modern in design and is equipped with a 2-cycle gasoline engine. The power which the engine produces is used to make a continuous vertical vibration in the unit, which is transmitted as a series of blows from the base plate to the ground.



## CONSTRUCTION AND PERFORMANCE



The power of the 3 H.P. gasoline engine is transmitted by V belts (no costly gear boxes) through a crank and connecting rod assembly to a cylinder, which is made to reciprocate vertically.

This vertical reciprocating motion is in turn transmitted through a double-coil spring shock absorber enclosed in the cylinder to the base plate, which then puts the combined force of shock and vibration to work at the rate of 550-700 blows per minute—equal to the force of a 6 to 8 ton roller. The Stomper actually jumps 1 $\frac{1}{2}$  to 2 $\frac{1}{2}$  inches off the ground.

Ideal for compaction of road and house foundations, consolidation of trench beds and pipe beds, the Stow Stomper's efficient design permits it to work where other types of compactors cannot go because of their bulky design.

### LOOK AT THESE



### STOMPER FEATURES

#### 1. HIGH RATE OF COMPACTION

Though it weighs only 159 lbs. the Stomper has the same compacting effect as a 6 to 8 ton roller due to the engineered combination of force and vibration.

#### 2. FAST CONTROLLED COMPACTION

Tamps from 122 to 150 square yards per hour. By controlling the engine speed, the rate of travel and frequency of shock can be varied to give the best compaction under any condition.

#### 3. HANDLES EASILY

This unit is designed and built with a balanced construction. Because of this it travels by itself and needs only to be guided. This feature means the Stow Stomper can be operated even by an inexperienced operator.

#### 4. MOVEMENT ON THE JOB

Each Stomper is delivered with a large two-wheeled

cart. This enables the Stomper to be easily moved about by one man.

#### 5. ENGINE PROTECTION

The entire engine assembly is surrounded by a chrome plated tubular handle to protect it against accidental falls.





## STOMPER SPECIFICATIONS

<b>MODEL TR671</b>		<b>Compacting Power</b>	<b>Equivalent to 8 Ton Roller</b>
<b>Shock Frequency</b>	<b>550-700 Blows Per Min.</b>	<b>Method of Engine Starting</b>	<b>Rope Starter</b>
<b>Shock Stroke</b>	<b>1<math>\frac{1}{8}</math> to 2<math>\frac{1}{8}</math> in.</b>		
<b>Engine</b>	<b>Gasoline Engine 3 H.P.</b>	<b>Dimensions:</b>	
<b>Tank Capacity</b>	<b>2 Quarts</b>	<b>Overall Height</b>	<b>36"</b>
<b>Lubricant</b>	<b>SAE #30 (20:1)</b>	<b>Handle Length</b>	<b>30"</b>
<b>Transmission</b>	<b>Pulley W/2V-Belt Centrifugal Clutch</b>	<b>Handle Width</b>	<b>14"</b>
		<b>Compacting Plate</b>	<b>11" x 13"</b>
		<b>Weight Approx.</b>	<b>159 Lbs.</b>

## ADVANTAGES OF STOW STOMPER—MODEL TR671

### A. ADVANTAGES COMPARED TO OTHER TYPES OF TAMPERS

1. Compaction equal to 6-8 ton roller.
2. Ideal for compaction in "hard to get at places," such as next to abutments, trench bottoms, street repair, pipeline beds and other spots where heavy-duty compaction equipment can't work.
3. All types of soil—including clay.
4. Easily moved about by one man because of its lightweight and two wheel cart.

### B. ADVANTAGES COMPARED TO OTHER RAMMER-TYPE TAMPERS

#### I EASY TO OPERATE

1. Lower center of gravity means better stability.
2. Large automotive type shock absorber lessens operator fatigue.
3. Standard two wheel cart means ease of mobility both on and off the job.

#### II RAMMER MECHANISM

1. New simplified design means faster take down time if a repair should be necessary.
2. Wooden foot is steel reinforced for increased durability.

#### III FUEL SYSTEM

1. The carburetor adjustment is **not** critical which means less downtime for adjustment.
2. Sediment bowl allows cleaning of carburetor in the field eliminating need for expensive special filters.
3. Built in fuel gauge tells operator at a glance when fuel is needed.
4. Easily accessible finger tip choke control.

#### IV ENGINE AND DRIVE COMPONENTS

1. Simplified belt and pulley drive eliminates costly and frequent gear box repair on competitive tampers.
2. Extra large muffler means lower noise level on job.
3. Engine is shock mounted for longer life.

#### V COMPLETE TOOL KIT

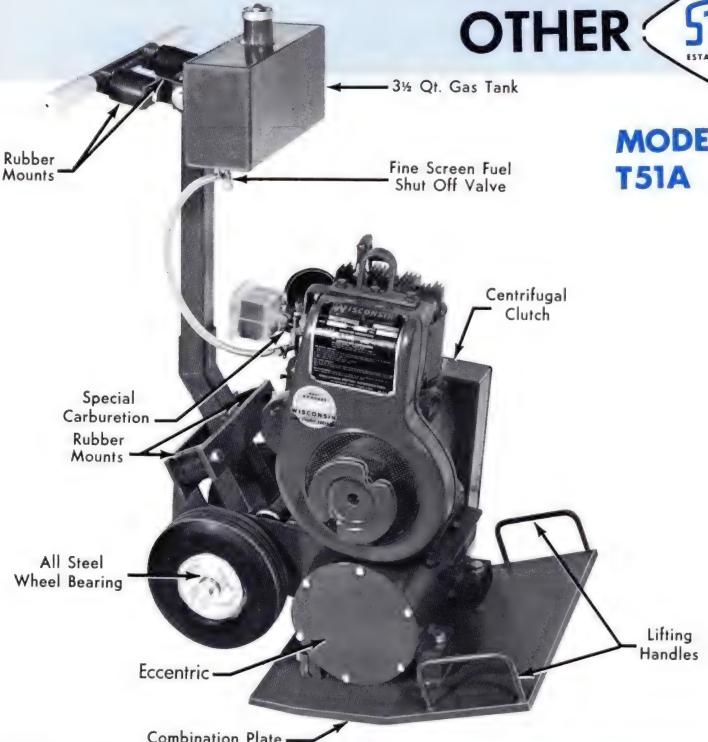
The Stow Stomper comes equipped with a complete tool kit.



Tool and spare parts kits standard with each Stow Stomper.



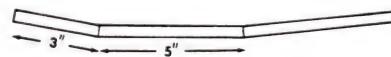
# TAKE A LOOK AT THE FEATURES OF THESE OTHER STOW TAMPERS



**MODEL  
T51A**

## NEW COMBINATION PLATE FEATURE

PROVIDES TWO TAMPING SURFACES. 3" SURFACE IS IDEAL FOR MOST GRANULAR SOILS. 5" SURFACE WORKS PERFECTLY ON SAND AND SIMILAR SOILS.



### STOW T-51A TAMPER SPECIFICATIONS

<b>MODEL</b>	T-51A	<b>GAS TANK</b>	3 1/2 QT. CAPACITY
<b>VIBRATIONS PER MIN.</b>	2800	<b>PLATE SIZE</b>	18" (3" and 5" tamping surface)
<b>IMPACT PER BLOW</b>	3500 LBS.	<b>OPTIONAL ACCESSORIES</b>	12" SHOES, (3" and 5" tamping surface) 24" SHOES, (3" and 5" tamping surface) 18" WATER PLATE 24" WATER PLATE
<b>TRAVEL SPEED PER MIN. DEPENDING ON THE TYPE SOIL &amp; LIFT.</b>	UP TO 75 FT. PER MIN., 6720 SQ. FT. PER HR.	<b>NET WEIGHT</b>	270 LBS.
<b>ENGINE &amp; HP RATING</b>	6HP WISCONSIN ACN With Special Carburetion	<b>SHIPPING WEIGHT</b>	320 LBS.

Wide Handle Bar

Reversible Handle

4 H.P. Engine

**MODEL  
T401**



### STOW PAN-TYPE TAMPER SPECIFICATIONS

<b>MODEL</b>	TK401	<b>ENGINE</b>	4 H. P. KOHLER
<b>MODEL</b>	TB401	<b>ENGINE</b>	4 H. P. BRIGGS & STRATTON
<b>VIBRATIONS PER MINUTE</b>	4,800	<b>PLATE SIZE</b>	OVER ALL WIDTH 17 1/2 OVER ALL LENGTH 24 1/2
<b>IMPACT PER BLOW</b>	1,800 LBS.	<b>TRAVEL SPEED</b>	TO 50 FEET PER MIN. OVER 4,500 SQ. FT. PER HR.
<b>NET WEIGHT TB401</b>	150 LBS. LESS CART	<b>NET WEIGHT TK401</b>	160 LBS. LESS CART



# CS 51 CONCRETE SAW

• *light weight • portable • fast cutting*

- IDEAL FOR SAWING HIGHWAYS, STREETS, SIDEWALKS
- BRIDGE REPAIR • TRENCHING FOR UTILITIES
- CONTRACTION JOINT SAWING AND CLEANING
- PLANT MAINTENANCE • MACHINERY BASES
- FLOOR AND ROOF REPAIRS • CURBS
- INSTALLING PLUMBING AND ELECTRICAL LINES
- BASEMENT DRAINS IN HOUSES

**AVAILABLE WITH EITHER**

**6 HP or 8 1/4 HP ENGINES**

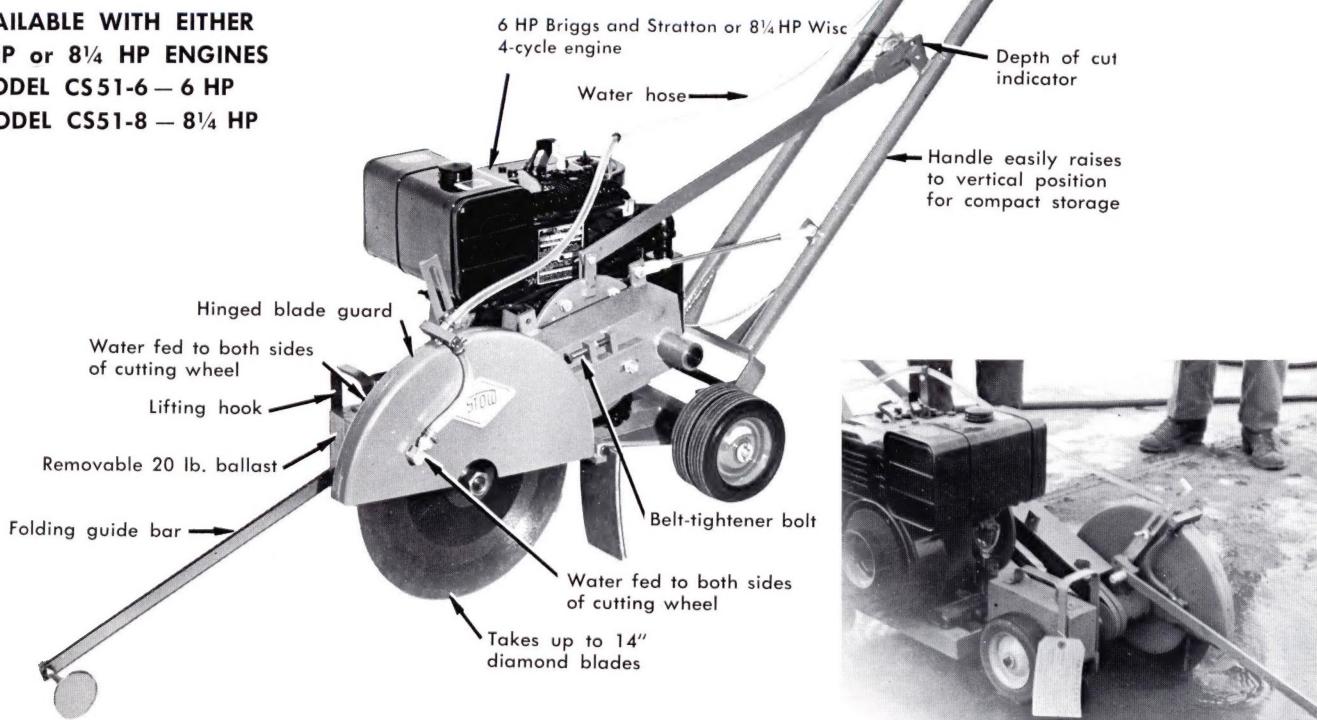
**MODEL CS51-6 — 6 HP**

**MODEL CS51-8 — 8 1/4 HP**

**Cuts up to 5" in depth!**

**Weighs only 146 lbs.!**

**Compact — Fits in car trunk!**



*Note: Two Wheels on Front*

**Light Weight** — Weighs only 146 lbs. including 20 lb. ballast weight that can be removed when carrying. Ideal for carrying to second floor or for use in hard to get at places like house basements.

**Compact** — Easily fits in to car trunks or station wagon. So narrow (21") that it can be used where larger machines would not fit. Handle can be raised to vertical position for storage, thereby cutting length down to 26 inches.

**Rugged Construction** — All steel welded construction with heavy duty sealed ball bearings. No lubrication required except engine. Hard-rubber, dual wheels provided in a 3-point suspension.

**Depth Easily Set** — An indicator makes it possible to control the cutting depth to the desired amount and lock it for constant depth of cut.

**Close-to-Wall Cutting** — Accomplished by swinging back the blade guard which is hinged. This feature also makes it possible to change blades without removing any parts.

**No Belt Slippage** — Tightening is easily done without removing the belt guard.

**Simple to Guide** — Folding Guide Bar makes it easy to follow the line of cut. Can be folded back when working up to walls.

**Water Provided** — Water attachment, furnished as standard equipment, keeps diamonds cool while cutting and keeps dust down. Valve on handle lets operator adjust water to amount desired.

**Takes Blade Up to 14-Inch Diameter** — with 1" arbor hole. Diamond or Abrasive blades can be attached. (Blade not furnished with machine.)

# LIGHT WEIGHT

# EASILY PORTABLE

*adaptable to wide variety of jobs*



CS Saw with hinged blade guard swung back — sawing concrete roof.



Stow CS Concrete Saw in action cutting expansion joints in large industrial building

## STOW CS CONCRETE SAW SPECIFICATIONS

MODEL	CS51	
CUTTING DEPTH	With 10 inch Blade — 3" deep	
	With 12 inch Blade — 4" deep	
	With 14 inch Blade — 5" deep	
PORABILITY	Fits in Station Wagon or Car Trunk	
ENGINE & HP RATING	Model CS51-6 Briggs & Stratton 6 HP Model CS51-8 Wisconsin 8 1/4 HP	
GUARDS	Hinged — can swing back for cutting up to walls	
WEIGHT	CS51-6	CS51-8
Net with one Ballast	146 lbs.	182 lbs.
Net without Ballast	126 lbs.	162 lbs.
Shipping Weight	156 lbs.	192 lbs.
WHEELS		6-inch x 1.50 Dual Rubber
NOTE: Blades not furnished by Stow		

## ADDITIONAL STANDARD EQUIPMENT

- Water Attachment
- Folding Guide Bar
- Throttle Control
- Takes blades with 1" hole
- Extra 20 lb. Ballast
- Depth Control
- Hinged Blade Guard
- Belt Tightener
- Heavy Duty Ball Bearings

### Optional Equipment



STOW MANUFACTURING CO.  
443 State St., Binghamton, N. Y. 13902



Hy-cycle  
Vibrator



Roto-Trowel



Vibrator



Grinder



Vibrating  
Screeed



Baby-Brute  
Vibrator



Tamper



Porto-Screeed



Ceiling Grinder



Concrete Saw



